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1.2 jetty-util 9.4.39.v20210325

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- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.3 pax-url-commons 2.6.7

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```
 * /opt/cola/permits/1277350021_1645728836.95/0/pax-url-commons-2-6-7-sources-
jar/org/ops4j/pax/url/commons/handler/HandlerActivator.java
 * /opt/cola/permits/1277350021_1645728836.95/0/pax-url-commons-2-6-7-sources-
jar/org/ops4j/pax/url/commons/handler/ConnectionFactory.java
```

1.4 hikaricp-java7 2.4.13

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zip/com/zaxxer/hikari/pool/HikariPool.java
 - * /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
 - * /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/MetricsTracker.java
 - * /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
 - * /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariJNDIFactory.java
 - * /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
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zip/com/zaxxer/hikari/util/ClockSource.java
 - * /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/PoolStats.java
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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTrackerFactory.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/PoolBase.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
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```

Found in path(s):

```
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/PoolEntry.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java
```

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zip/com/zaxxer/hikari/pool/ProxyStatement.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/PropertyElf.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariConfigMXBean.java

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zip/com/zaxxer/hikari/HikariConfig.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/FastList.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyLeakTask.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyResultSet.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyConnection.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/DriverDataSource.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyFactory.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/ConcurrentBag.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/SuspendResumeLock.java

* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/JavassistProxyFactory.java

1.5 commons-pool 1.3

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1.6 netty-handler 4.1.62.Final

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Found in path(s):

```
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
```

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-

jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
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image/io.netty.handler.native-image.properties
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-

jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-

jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
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jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
```

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/PemValue.java

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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslTlsV13X509ExtendedTrustManager.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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Found in path(s):

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ClientAuth.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java

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* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1171712321_1623127834.9/0/netty-handler-4-1-62-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java

1.7 java-property-utils 1.13

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Found in path(s):

* /opt/cola/permits/1149253601_1620942576.0/0/java-property-utils-1-13-sources-1-jar/META-INF/maven/com.thetransactioncompany/java-property-utils/pom.xml

1.8 batik-script 1.11

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1.10 jakarta-jws-api 1.1.1

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1.11 tomcat-storeconfig 9.0.58

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1.13 jaxb-api 2.3.0

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1.16 codemodel 2.3.2

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1.20 jackson-databind 2.10.1

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1.21 snake-yaml 1.9

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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[This is the first released version of the library GPL. It is numbered 2
because it goes with version 2 of the ordinary GPL.]

Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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The reason we have a separate public license for some libraries is that they

blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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 */

```
package com.mysql.cj.protocol.x;
```

```
import java.util.List;
```

```
import com.mysql.cj.protocol.Warning;
```

```
import com.mysql.cj.x.protobuf.MysqlxDatatypes.Scalar;
```

```
public class Notice implements Warning {
```

```
    public static final int XProtocolNoticeFrameType_WARNING = 1;
```

```
    public static final int XProtocolNoticeFrameType_SESS_VAR_CHANGED = 2;
```

```
    public static final int XProtocolNoticeFrameType_SESS_STATE_CHANGED = 3;
```

```
    public static final int SessionStateChanged_CURRENT_SCHEMA = 1;
```

```
    public static final int SessionStateChanged_ACCOUNT_EXPIRED = 2;
```

```
    public static final int SessionStateChanged_GENERATED_INSERT_ID = 3;
```

```
    public static final int SessionStateChanged_ROWS_AFFECTED = 4;
```

```
    public static final int SessionStateChanged_ROWS_FOUND = 5;
```

```
    public static final int SessionStateChanged_ROWS_MATCHED = 6;
```

```
    public static final int SessionStateChanged_TRX_COMMITTED = 7;
```

```
    public static final int SessionStateChanged_TRX_ROLLEDBACK = 9;
```

```
    public static final int SessionStateChanged_PRODUCED_MESSAGE = 10;
```

```
    public static final int SessionStateChanged_CLIENT_ID_ASSIGNED = 11;
```

```
    public static final int SessionStateChanged_GENERATED_DOCUMENT_IDS = 12;
```

```
    private int noticeType = 0;
```

```
    private int level;
```

```
    private long code;
```

```
    private String message;
```

```
    private Integer paramType = null;
```

```
    private String paramName = null;
```

```
    private Scalar value = null;
```

```
    private List<Scalar> valueList = null;
```

```

/**
 * Constructor for XProtocolNoticeFrameType_WARNING
 *
 * @param level
 *       level
 * @param code
 *       code
 * @param message
 *       message
 */
public Notice(int level, long code, String message) {
    this.noticeType = XProtocolNoticeFrameType_WARNING;
    this.level = level;
    this.code = code;
    this.message = message;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_STATE_CHANGED
 *
 * @param paramType
 *       parameter type
 * @param valueList
 *       values
 */
public Notice(int paramType, List<Scalar> valueList) {
    this.noticeType = XProtocolNoticeFrameType_SESS_STATE_CHANGED;
    this.paramType = paramType;
    this.valueList = valueList;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_VAR_CHANGED
 *
 * @param paramName
 *       parameter name
 * @param value
 *       value
 */
public Notice(String paramName, Scalar value) {
    this.noticeType = XProtocolNoticeFrameType_SESS_VAR_CHANGED;
    this.paramName = paramName;
    this.value = value;
}

public int getType() {
    return this.noticeType;
}

```

```

    }

    @Override
    public int getLevel() {
        return this.level;
    }

    @Override
    public long getCode() {
        return this.code;
    }

    @Override
    public String getMessage() {
        return this.message;
    }

    public Integer getParamType() {
        return this.paramType;
    }

    public String getParamName() {
        return this.paramName;
    }

    public Scalar getValue() {
        if (this.value == null && this.valueList != null && !this.valueList.isEmpty()) {
            return this.valueList.get(0);
        }
        return this.value;
    }

    public List<Scalar> getValueList() {
        return this.valueList;
    }
}

```

1.23 http2-server 9.4.28.v20200408

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The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.24 commons-lang3 2.5

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1.28 avro 1.8.1

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Found in path(s):

* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/ClassMap.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/ClassPool.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/Loader.java

- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/Instanceof.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/AttributeInfo.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/Loader.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/ASTree.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/Translator.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/framedump.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/Lex.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/StringL.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/KeywordTable.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/InstructionPrinter.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/LongVector.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/DuplicateMemberException.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ClassFile.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypeData.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/SerializedProxy.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/Keyword.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/runtime/Cflow.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtMember.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/ClassClassPath.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiArrayType.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/Cast.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/ArrayInit.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/Opcodes.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/HotSwapper.java

- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtClassType.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/NewExpr.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/SubroutineScanner.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/convert/TransformReadField.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/runtime/DotClass.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/SignatureAttribute.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationsWriter.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtField.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/ProxyObject.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypeTag.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ByteArray.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/MemberCodeGen.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
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- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/web/Webserver.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/Subroutine.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/Executor.java
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- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/Parser.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/Javac.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/CannotCreateException.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ByteStream.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/LineNumberAttribute.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-

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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
 jar/javassist/bytecode/stackmap/TypedBlock.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/Expr.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 jar/javassist/bytecode/EnclosingMethodAttribute.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/runtime/Inner.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
 jar/javassist/compiler/ast/MethodDecl.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/ClassPoolTail.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/Dump.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
 jar/javassist/bytecode/ExceptionTable.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/ClassPath.java
 * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
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- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/InnerClassesAttribute.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/stackmap/Liveness.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/LoaderClassPath.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/SyntheticAttribute.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectInputStream.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/AccessorMaker.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/FieldDecl.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ExceptionsAttribute.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/Frame.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/rmi/RemoteException.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ConstPool.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/rmi/StubGenerator.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/Sample.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/Expr.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/NewArray.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtArray.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/NewExpr.java

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- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ClassFilePrinter.java
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- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/AnnotationsAttribute.java
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- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtBehavior.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/StackMapTable.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/FieldInfo.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/BadBytecode.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/Reflection.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtNewMethod.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/AnnotationDefaultAttribute.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/Metaobject.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/web/Viewer.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/MethodInfo.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ProceedHandler.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/URLClassPath.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtClass.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/Symbol.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/MethodCall.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/MethodHandler.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/StackMap.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/web/BadHttpRequest.java
- * /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/Modifier.java

* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtNewNestedClass.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/NotFoundException.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/util/proxy/FactoryHelper.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CtMethod.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/compiler/ast/Stmnt.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-

```

jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/ConstantAttribute.java
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```

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```

Found in path(s):

```

* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-

```

jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135953607_1613641236.89/0/javassist-3-15-0-ga-sources-1-
jar/javassist/bytecode/annotation/ArrayMemberValue.java

1.30 apr-util 1.4.1

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1.31 jackson-databind 2.10.3

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1.32 joda-time 1.6

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1.33 chronicle-threads 2.20.104

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```
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/CoreEventLoop.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/PauserMode.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/BlockingEventLoop.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/PauserMonitor.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/TimingPauser.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/BusyPauser.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/ThreadMonitorEventHandler.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/VanillaExecutorFactory.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/TimedEventHandler.java
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jar/net/openhft/chronicle/threads/internal/EventLoopUtil.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/EventGroup.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
```

jar/net/openhft/chronicle/threads/DiskSpaceMonitor.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/VanillaEventLoop.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/LightPauser.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/Threads.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/MonitorEventLoop.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/Pauser.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/NamedThreadFactory.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/ExecutorFactory.java
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jar/net/openhft/chronicle/threads/MilliPauser.java
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jar/net/openhft/chronicle/threads/TimeoutPauser.java
* /opt/cola/permits/1184885762_1627645186.74/0/chronicle-threads-2-20-104-sources-
jar/net/openhft/chronicle/threads/YieldingPauser.java
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jar/net/openhft/chronicle/threads/BusyTimedPauser.java
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jar/net/openhft/chronicle/threads/LongPauser.java
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jar/net/openhft/chronicle/threads/MediumEventLoop.java

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1.34 json-simple-ordered 2.25.2

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1.38 jetty-io 9.4.28.v20200408

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-impl

MortBay

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.39 tomcat-websocket-api 9.0.58

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1.40 jersey-hk2 2.28

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- * <https://github.com/eclipse-ee4j/jersey>

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1.41 jna 4.2.0

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The binary file of the original library has been modified by Atlassian in such way that classes have changed

their package names from 'org.jfree' to 'clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

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mi2Kp5RjfhIIdGCSO<bOTNof2KNxm9KCi5lxEyKI9BJW3p
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UrwSUSSTVwxWSXNmrrpnmqmUUnpsvpntsmmmmmUUnpsvp
ntsmmmmmUUFmbkWJlroZbW4bsbilmjkbqUUnmmmm
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/*

File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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1.42 jfreechart 1.0.13

1.42.1 Available under license :

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1.43 activemq-console 5.16.1

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1.44 swagger-annotations 1.5.9

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jar/io/swagger/annotations/ApiOperation.java
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1.45 animal-sniffer-annotation 1.17

1.46 commons-collections 3.2.2

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1.52 jackson-mapper-asl 1.9.3

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```

```
*
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- * /opt/ws_local/PERMITS_SQL/1087421595_1599497047.8/0/jackson-mapper-asl-1-9-3-sources-4-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.53 javassist 3.18.1-GA

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- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectOutputStream.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/MethodHandler.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtField.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-

jar/javassist/tools/rmi/ObjectImporter.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/bytecode/SyntheticAttribute.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/compiler/CodeGen.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/tools/reflect/Compiler.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/bytecode/stackmap/Tracer.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/tools/reflect/CannotInvokeException.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/ClassPath.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/tools/rmi/StubGenerator.java
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 jar/javassist/compiler/ast/IntConst.java
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 jar/javassist/SerialVersionUID.java
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 jar/javassist/util/proxy/SerializedProxy.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/bytecode/annotation/AnnotationImpl.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/NewArray.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
 jar/javassist/bytecode/AnnotationDefaultAttribute.java
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 jar/javassist/bytecode/InstructionPrinter.java
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 jar/javassist/compiler/ast/CastExpr.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtArray.java
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 jar/javassist/compiler/ast/Symbol.java
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 jar/javassist/bytecode/analysis/ControlFlow.java
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 jar/javassist/compiler/MemberCodeGen.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtClass.java
 * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-

jar/javassist/bytecode/DeprecatedAttribute.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Sample.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtNewConstructor.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/Proxy.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/ConstructorCall.java

- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/URLClassPath.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtNewMethod.java
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- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationsWriter.java
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- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/runtime/Desc.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ClassFilePrinter.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepository.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/AssignExpr.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/Util.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/Instanceof.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/StringL.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/MultiArrayType.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/Descriptor.java

* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Keyword.java
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1.54 tomcat-annotations-api 9.0.58

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1.58 activemq-jaas 5.16.1

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1.59 jasper-reports 4.0.2

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/* ***** */
/* *                               * */
/* * Parts of this software have been adapted from the libpng package. * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package. * */
/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* *                               * */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
/* *                               * */
/* ***** */

```

MNGPLG

A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>

Web site: <<http://pobox.com/~jason1/mngplg/>>

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1.67 j2objc-annotations 1.3

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jar/com/google/j2objc/annotations/RetainedWith.java  
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-  
jar/com/google/j2objc/annotations/ReflectionSupport.java  
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-  
jar/com/google/j2objc/annotations/RetainedLocalRef.java  
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-  
jar/com/google/j2objc/annotations/Property.java  
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```

```
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
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```
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jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
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1.68 ganymedssh build260

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1.75 reflections 0.9.12

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- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/injector/AnnotatableInjector.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/utils/ClassInstantiationUtility.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/injector/Injector.java
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- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/annotations/ReflectiveInitialization.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/MethodInvocationException.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/MethodNotFoundException.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/extractor/AnnotatableExtractor.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/ConstructorNotFoundException.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/hierarchy/HierarchyModel.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/hierarchy/TypeHierarchy.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/extractor/ExtractionManager.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/JarClassLoader.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/ClassInstantiationException.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/ClassLoaderManager.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/ReflectiveTools.java
- * /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/ClassesLoader.java

* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/BidirectionalAction.java
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1.76 tomcat-dbcp 9.0.58

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1.77 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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1.78 zlib 1.2.11

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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1.79 aws-java-sdk 1.0.000

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- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/Grantee.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/Mimetypes.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/RepeatableFileInputStream.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/Grant.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/BucketLoggingConfiguration.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/AccessControlList.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/EmailAddressGrantee.java
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- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/CanonicalGrantee.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/Bucket.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/RepeatableInputStream.java
- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/ServiceUtils.java

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* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/Constants.java
* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/Owner.java
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* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/transform/AclXmlFactory.java
* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/AmazonS3.java
* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/sqs/QueueUriHandler.java
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* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/auth/PropertiesCredentials.java
* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/BucketNameUtils.java
* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/simplydb/util/package-info.java
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* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/ClientConfiguration.java
* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/util/S3UploadPolicy.java

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- * /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/rds/model/InsufficientDBInstanceCapacityException.java
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* /opt/cola/permits/1136959973_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-
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- web-app_3_0.xsd
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1.88 tomcat-i18n-ko 9.0.58

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1.90 jctools-core 3.1.0

1.90.1 Available under license :

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```
/*  
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*  
* http://www.apache.org/licenses/LICENSE-2.0  
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

```
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jar/org/jctools/queues/spec/Ordering.java  
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
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jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/LinkedListAtomicNode.java
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jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
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jar/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SupportsIterator.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseSpSCLinkedListAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcArrayQueue.java
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jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
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jar/org/jctools/queues/atomic/SpSCLinkedListAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpmcArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMapLong.java
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jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
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jar/org/jctools/queues/BaseLinkedQueue.java
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jar/org/jctools/util/InternalAPI.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashSet.java
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jar/org/jctools/util/Pow2.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
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jar/org/jctools/queues/LinkedQueueNode.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-


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jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
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jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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jar/org/jctools/queues/SpSCChunkedArrayQueue.java
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jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
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jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

```

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xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>

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  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  </license>
</licenses>

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</license>
</licenses>

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<tag>HEAD</tag>
</scm>

<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
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<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>

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<junit.version>4.12</junit.version>
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1.91 slf4j-log4j 1.7.5

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1.92 mxparser 1.2.1

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1.93 jline-terminal-jna 3.12.1

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```
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
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* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
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* /opt/cola/permits/1260643378_1643189352.39/0/jline-terminal-jna-3-12-1-sources-
jar/org/jline/terminal/impl/jna/win/Kernel32.java
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jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
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1.94 ops4j-base-net 1.5.1

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemValue.java  
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/DelegatingSslContext.java  
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemX509Certificate.java  
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/flow/package-info.java  
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
```

jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/PemEncoded.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/flush/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
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jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java

* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemReader.java

* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java

* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ipfilter/IpFilterRule.java

* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-

jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSsl.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-

jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/SslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
```

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/logging/ByteBufFormat.java

* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/address/ResolveAddressHandler.java

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- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/logging/package-info.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/ChunkedWriteHandler.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/IdleState.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutException.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/logging/LogLevel.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/ChunkedFile.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/WriteTimeoutException.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/package-info.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/package-info.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/ChunkedNioStream.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/NotSslRecordException.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/ChunkedNioFile.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/ChunkedStream.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/package-info.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/TimeoutException.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/package-info.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/SslHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/stream/ChunkedInput.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/flow/FlowControlHandler.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/META-
INF/native-image/io.netty.handler.native-image.properties
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- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ClientAuth.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
- * /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslContextBuilder.java

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Source Code

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- * <https://github.com/eclipse-ee4j/metro-xmlstreambuffer>
- * <https://github.com/eclipse-ee4j/metro-policy>
- * <https://github.com/eclipse-ee4j/metro-wsit>
- * <https://github.com/eclipse-ee4j/metro-mimepull>
- * <https://github.com/eclipse-ee4j/metro-ws-test-harness>
- * <https://github.com/eclipse-ee4j/metro-package-rename-task>
- * <https://github.com/eclipse-ee4j/metro-jax-ws>
- * <https://github.com/eclipse-ee4j/metro-saaj>
- * <https://github.com/eclipse-ee4j/metro-jwsdp-samples>
- * <https://github.com/eclipse-ee4j/jax-rpc-ri>

Third-party Content

This project leverages the following third party content.

addressing.xml Version: 2004/10 (n/a)

- * License: W3C
- * Project: <https://www.w3.org/Submission/ws-addressing/>
- * Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

ant-launcher (1.10.2)

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- * Project: <https://ant.apache.org/>
- * Source:
<http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

Apache Ant (1.6)

- * License: Apache-1.1
- * Project: <https://ant.apache.org/>
- * Source: <https://repo1.maven.org/maven2/ant/ant/1.6/ant-1.6-sources.jar>

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* Project: <https://commons.apache.org/proper/commons-logging/>

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JUnit (4.12)

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maven-core (3.5.2)

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maven-plugin-annotations (3.5.1)

* License: Apache-2.0

* Project:

<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

* Source:

<https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

maven-plugin-api (3.5.2)

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* Project: <https://maven.apache.org/>

* Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>

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maven-settings (3.5.2)

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mex.xsd Version: 2004/09 (n/a)

* License: Oasis Style

* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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stax2-api (4.1)

* License: Pending

* Project: <https://github.com/FasterXML/stax2-api>

* Source:

<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

testng (6.14.2)

* License: Apache-2.0 AND MIT

* Project: <https://testng.org/doc/index.html>

* Source: <https://github.com/cbeust/testng>

woodstox-core-asl (4.4.1)

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woodstox-core-asl (5.1.0)

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* Project: <https://github.com/FasterXML/woodstox>

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ws-addr.wsd (1.0)

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* Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

* License: Oasis Style

* Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>

* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

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<http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wrm Version: 2005/02 (n/a)

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* Source:

<http://schemas.xmlsoap.org/ws/2005/02/rm/wrm.xsd>; <http://schemas.xmlsoap.org/ws/2005/02/rm/wrm-policy.xsd>

wrm.xsd (1.2)

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""N;1org/apache/tools/ant/types/Permissions$Permissionjava/lang/Objectjava/lang/Stringtrimlength()IgetClass()Lja
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`org.apache.tomcat.util.json.JSONParser.jj` is a public domain javacc grammar
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<https://github.com/RobertFischer/json-parser>

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The `org.apache.tomcat.jni` and the `org.apache.tomcat.net.openssl` packages
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The `org.apache.catalina.tribes.membership.cloud` package contains derivative
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The original XML Schemas for Java EE Deployment Descriptors:
- `javaee_5.xsd`
- `javaee_web_services_1_2.xsd`
- `javaee_web_services_client_1_2.xsd`

- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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1.103 jackson-jaxrs 1.8.5

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1.104 wagon-file 3.2.0

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<name>Vladimir Dzhuvinov</name>
<email>vladimir@dzhuvinov.com</email>
</developer>
<developer>
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<name>Joost Cassee</name>
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</developer>
</developers>

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    <artifactId>javax.servlet-api</artifactId>
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    <version>4.12</version>
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  </dependency>
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      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.8.1</version>
      <configuration>
        <source>1.7</source>
        <target>1.7</target>
        <compilerArgument>-Xlint</compilerArgument>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>2.22.2</version>
    </plugin>
    <plugin>
      <groupId>org.codehaus.mojo</groupId>
      <artifactId>buildnumber-maven-plugin</artifactId>
      <version>1.4</version>
      <executions>
        <execution>
          <phase>validate</phase>
          <goals>
            <goal>create</goal>
```

```

</goals>
</execution>
</executions>
<configuration>
<getRevisionOnlyOnce>true</getRevisionOnlyOnce>
<doCheck>>false</doCheck>
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<timestampFormat>{0,date,yyyyMMdd.HHmms.SSS}</timestampFormat>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-jar-plugin</artifactId>
<version>3.1.2</version>
<configuration>
<excludes>
<exclude>**/demo/</exclude>
<exclude>**/demo/*</exclude>
</excludes>
<archive>
<manifestEntries>
<Build-Date>${timestamp}</Build-Date>
<Build-Number>${buildNumber}</Build-Number>
<Build-Tag>${project.scm.tag}</Build-Tag>
</manifestEntries>
<manifest>
<addDefaultImplementationEntries>>true</addDefaultImplementationEntries>
<addDefaultSpecificationEntries>>true</addDefaultSpecificationEntries>
</manifest>
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<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-war-plugin</artifactId>
<version>3.2.3</version>
<configuration>
<classifier>demo</classifier>
<archiveClasses>>false</archiveClasses>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>2.10.4</version>
<configuration>
<author>>true</author>
<version>true</version>

```

```

<use>true</use>
<linksource>true</linksource>
<windowtitle>CORS Filter v${project.version}</windowtitle>
<doctitle>CORS Filter v${project.version}</doctitle>
</configuration>
<executions>
<execution>
<id>attach-javadocs</id>
<goals>
<goal>jar</goal>
</goals>
</execution>
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<plugin>
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<artifactId>maven-source-plugin</artifactId>
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<id>attach-sources</id>
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</goals>
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</plugin>
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<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-gpg-plugin</artifactId>
<version>1.6</version>
<executions>
<execution>
<id>sign-artifacts</id>
<phase>verify</phase>
<goals>
<goal>sign</goal>
</goals>
</execution>
</executions>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-deploy-plugin</artifactId>
<version>2.8.2</version>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>

```

```

<artifactId>maven-release-plugin</artifactId>
<version>2.5.3</version>
</plugin>
<plugin>
<groupId>org.sonatype.plugins</groupId>
<artifactId>nexus-staging-maven-plugin</artifactId>
<version>1.6.8</version>
<extensions>>true</extensions>
<configuration>
<serverId>sonatype-nexus-vd</serverId>
<nexusUrl>https://oss.sonatype.org/</nexusUrl>
<autoReleaseAfterClose>>true</autoReleaseAfterClose>
</configuration>
</plugin>
</plugins>
</build>

<distributionManagement>
<snapshotRepository>
<id>sonatype-nexus-vd</id>
<url>https://oss.sonatype.org/content/repositories/snapshots</url>
</snapshotRepository>
<repository>
<id>sonatype-nexus-vd</id>
<url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
</repository>
</distributionManagement>

</project>

```

Found in path(s):

* /opt/cola/permits/1149253617_1620942524.71/0/cors-filter-2-9-jar/META-INF/maven/com.thetransactioncompany/cors-filter/pom.xml

1.106 jansson 4.12.0

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1.107 activemq-kahadb-store 5.16.1

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1.108 ops4j-base-monitors 1.5.1

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1.109 commons-vfs 1.0

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1.110 jersey-server 1.11

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* /opt/cola/permits/1258803870_1643111634.75/0/opencsv-2-4-sources-jar/au/com/bytecode/opencsv/bean/MappingStrategy.java

* /opt/cola/permits/1258803870_1643111634.75/0/opencsv-2-4-sources-jar/au/com/bytecode/opencsv/bean/CsvToBean.java

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 *
 * @author Glen Smith
 * @author Rainer Pruy
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1.113 jetty-servlet 9.4.39.v20210325

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The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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Version 2, June 1991

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/*

* SpanDSP - a series of DSP components for telephony

*

* g722_decode.c - The ITU G.722 codec, decode part.

*

* Written by Steve Underwood <steveu@coppice.org>

*

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*

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*

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3.1.0 / 2017-09-26

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- * Add `DEBUG_HIDE_DATE` env var (#486)
- * Remove ReDoS regexp in %o formatter (#504)
- * Remove "component" from package.json
- * Remove `component.json`
- * Ignore package-lock.json
- * Examples: fix colors printout
- * Fix: browser detection
- * Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24

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- * Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08

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- * Breaking: Remove DEBUG_FD (#406)
- * Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
- * Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
- * Addition: document `enabled` flag (#465)
- * Addition: add 256 colors mode (#481)
- * Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
- * Update: component: update "ms" to v2.0.0
- * Update: separate the Node and Browser tests in Travis-CI
- * Update: refactor README, fixed documentation, added "Namespace Colors" section, redid screenshots
- * Update: separate Node.js and web browser examples for organization
- * Update: update "browserify" to v14.4.0

* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22

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* remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18

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* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16

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* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)

* Fix: Inline extend function in node implementation (#452, @dougwilson)

* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27

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* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)

* Misc: clean up browser reference checks (#447, @thebigredgeek)

* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20

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* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)

* Chore: ignore bower.json in npm installations. (#437, @joaovieira)

* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13

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* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)

* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10

=====

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)

* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)

* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10

- =====
- * Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
 - * Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
 - * Fix: IE8 "Expected identifier" error (#414, @vgoma)
 - * Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28

=====

- * Fix: added better null pointer checks for browser useColors (@thebigredgeek)
- * Improvement: removed explicit `window.debug` export (#404, @tootallnate)
- * Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25

=====

- * Fix: reference error on window within webworkers (#393, @KlausTrainer)
- * Docs: fixed README typo (#391, @lurch)
- * Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20

=====

- * Fix: babel-core compatibility

2.5.0 / 2016-12-20

=====

- * Fix: wrong reference in bower file (@thebigredgeek)
- * Fix: webworker compatibility (@thebigredgeek)
- * Fix: output formatting issue (#388, @kribblo)
- * Fix: babel-loader compatibility (#383, @escwald)
- * Misc: removed built asset from repo and publications (@thebigredgeek)
- * Misc: moved source files to /src (#378, @yamikuronue)
- * Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
- * Test: coveralls integration (#378, @yamikuronue)
- * Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17

=====

- * Fix: `navigator` undefined in Rhino (#376, @jochenberger)
- * Fix: custom log function (#379, @hsiliev)
- * Improvement: bit of cleanup + linting fixes (@thebigredgeek)
- * Improvement: rm non-maintained `dist` dir (#375, @freewil)
- * Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14

=====

- * Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14

=====

- * Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14

=====

- * Fix: browser colors (#367, @tootallnate)
- * Misc: travis ci integration (@thebigredgeek)
- * Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13

=====

- * Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13

=====

- * Fix: bower.json references unbuilt src entry point (#342, @justmatt)
- * Fix: revert "handle regex special characters" (@tootallnate)
- * Feature: configurable util.inspect() options for NodeJS (#327, @tootallnate)
- * Feature: %O (big O) pretty-prints objects (#322, @tootallnate)
- * Improvement: allow colors in workers (#335, @botverse)
- * Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09

=====

- * Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)
- * Fix: Returning `localStorage` saved values (#331, Levi Thomason)
- * Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09

=====

- * Fix: be super-safe in index.js as well (@TooTallNate)
- * Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09

=====

- * Fix: Added electron compatibility (#324, @paulcbetts)
- * Improvement: Added performance optimizations (@tootallnate)
- * Readme: Corrected PowerShell environment variable example (#252, @gimre)
- * Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07

=====

- * Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
- * Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
- * Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
- * Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
- * Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncletom)
- * Package: Update "ms" to 0.7.2 (#315, @DevSide)
- * Package: removed superfluous version property from bower.json (#207 @kkirsche)
- * Readme: fix USE_COLORS to DEBUG_COLORS
- * Readme: Doc fixes for format string sugar (#269, @mlucool)
- * Readme: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
- * Readme: doc fixes for PowerShell (#271 #243, @exoticknight @unreadable)
- * Readme: better docs for browser support (#224, @matthewmueller)
- * Tooling: Added yarn integration for development (#317, @thebigredgeek)
- * Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
- * Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
- * Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09

=====

- * package: update "ms" to v0.7.1 (#202, @dougwilson)
- * README: add logging to file example (#193, @DanielOchoa)
- * README: fixed a typo (#191, @amir-s)
- * browser: expose `storage` (#190, @stephenmathieson)
- * Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13

=====

- * Updated stdout/stderr example (#186)
- * Updated example/stdout.js to match debug current behaviour
- * Renamed example/stderr.js to stdout.js
- * Update Readme.md (#184)
- * replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01

=====

- * dist: recompile
- * update "ms" to v0.7.0

- * package: update "browserify" to v9.0.3
- * component: fix "ms.js" repo location
- * changed bower package name
- * updated documentation about using debug in a browser
- * fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29

=====

- * browser: use `typeof` to check for `console` existence
- * browser: check for `console.log` truthiness (fix IE 8/9)
- * browser: add support for Chrome apps
- * Readme: added Windows usage remarks
- * Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15

=====

- * node: implement `DEBUG_FD` env variable support
- * package: update "browserify" to v6.1.0
- * package: add "license" field to package.json (#135, @panuhorsmalahiti)

2.0.0 / 2014-09-01

=====

- * package: update "browserify" to v5.11.0
- * node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15

=====

- * dist: recompile
- * example: remove `console.info()` log usage
- * example: add "Content-Type" UTF-8 header to browser example
- * browser: place %c marker after the space character
- * browser: reset the "content" color via `color: inherit`
- * browser: add colors support for Firefox >= v31
- * debug: prefer an instance `log()` function over the global one (#119)
- * Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09

=====

- * Add support for multiple wildcards in namespaces (#122, @seegno)
- * browser: fix lint

1.0.2 / 2014-06-10

=====

- * browser: update color palette (#113, @gscottolson)
- * common: make console logging function configurable (#108, @timoxley)
- * node: fix %o colors on old node <= 0.8.x
- * Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06

=====

- * browser: use `removeItem()` to clear localStorage
- * browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
- * package: add "contributors" section
- * node: fix comment typo
- * README: list authors

1.0.0 / 2014-06-04

=====

- * make ms diff be global, not be scope
- * debug: ignore empty strings in enable()
- * node: make DEBUG_COLORS able to disable coloring
- * *: export the `colors` array
- * npmignore: don't publish the `dist` dir
- * Makefile: refactor to use browserify
- * package: add "browserify" as a dev dependency
- * Readme: add Web Inspector Colors section
- * node: reset terminal color for the debug content
- * node: map "%o" to `util.inspect()`
- * browser: map "%j" to `JSON.stringify()`
- * debug: add custom "formatters"
- * debug: use "ms" module for humanizing the diff
- * Readme: add "bash" syntax highlighting
- * browser: add Firebug color support
- * browser: add colors for WebKit browsers
- * node: apply log to `console`
- * rewrite: abstract common logic for Node & browsers
- * add .jshintrc file

0.8.1 / 2014-04-14

=====

- * package: re-add the "component" section

0.8.0 / 2014-03-30

=====

- * add `enable()` method for nodejs. Closes #27
- * change from stderr to stdout

* remove unnecessary index.js file

0.7.4 / 2013-11-13

=====

* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30

=====

* fix: catch localStorage security error when cookies are blocked (Chrome)

* add debug(err) support. Closes #46

* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06

=====

* fix package.json

* fix: Mobile Safari (private mode) is broken with debug

* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05

=====

* add repository URL to package.json

* add DEBUG_COLORED to force colored output

* add browserify support

* fix component. Closes #24

0.7.0 / 2012-05-04

=====

* Added .component to package.json

* Added debug.component.js build

0.6.0 / 2012-03-16

=====

* Added support for "-" prefix in DEBUG [Vinay Pulim]

* Added `enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02

=====

* Added: humanize diffs. Closes #8

* Added `debug.disable()` to the CS variant

* Removed padding. Closes #10

* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01

=====

- * Added browser variant support for older browsers [TooTallNate]
- * Added `debug.enable('project:*')` to browser variant [TooTallNate]
- * Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26

=====

- * Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22

=====

- * Added wildcard support

0.1.0 / 2011-12-02

=====

- * Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03

=====

- * Initial release

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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/**

/* Base64 - a simple base64 encoder and decoder.

/**

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```
/*
/* This code may be freely used for any purpose, either personal
/* or commercial, provided the authors copyright notice remains
/* intact.
/*
/* Enhancements by Stanley Yamane:
/*   o reverse lookup table for the decode function
/*   o reserve string buffer space in advance
/*
/******
```

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That's all there is to it!
wewidth.js: JavaScript Portng of Markus Kuhn's wewidth() Implementation

=====

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language: node_js

node_js:

- "6"

- "8"

cache:

directories:

- "node_modules"

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That's all there is to it!

```
# debug
```

```
[![Build Status](https://travis-ci.org/visionmedia/debug.svg?branch=master)](https://travis-ci.org/visionmedia/debug) [![Coverage
```

```
Status](https://coveralls.io/repos/github/visionmedia/debug/badge.svg?branch=master)](https://coveralls.io/github/visionmedia/debug?branch=master) [![Slack](https://visionmedia-community-slackin.now.sh/badge.svg)](https://visionmedia-community-slackin.now.sh/)
```

```
[![OpenCollective](https://opencollective.com/debug/backers/badge.svg)](#backers)
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```

```

```

A tiny JavaScript debugging utility modelled after Node.js core's debugging technique. Works in Node.js and web browsers.

```
## Installation
```

```
```bash
```

```
$ npm install debug
```

```
```
```

```
## Usage
```

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error` for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [_app.js](./examples/node/app.js):

```
```js
```

```
var debug = require('debug')('http')
```

```
, http = require('http')
```

```
, name = 'My App';
```

```
// fake app
```

```
debug('booting %o', name);
```

```
http.createServer(function(req, res){
```

```

debug(req.method + ' ' + req.url);
res.end('hello\n');
}).listen(3000, function(){
debug('listening');
});

```

// fake worker of some kind

```

require('./worker');
```

```

Example [_worker.js_](./examples/node/worker.js):

```

```js
var a = require('debug')('worker:a')
, b = require('debug')('worker:b');

function work() {
a('doing lots of uninteresting work');
setTimeout(work, Math.random() * 1000);
}

work();

function workb() {
b('doing some work');
setTimeout(workb, Math.random() * 2000);
}

workb();
```

```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here are some examples:

Windows command prompt notes

CMD

On Windows the environment variable is set using the `set` command.

```
```cmd
set DEBUG=*,-not_this
```
```

Example:

```
```cmd
set DEBUG=* & node app.js
```
```

PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```
```cmd
$env:DEBUG = "*,-not_this"
```
```

Example:

```
```cmd
$env:DEBUG='app';node app.js
```
```

Then, run the program to be debugged as usual.

npm script example:

```
```js
"windowsDebug": "@powershell -Command $env:DEBUG='*';node app.js",
```
```

Namespace Colors

Every debug instance has a color generated for it based on its namespace name. This helps when visually parsing the debug output to identify which debug instance a debug line belongs to.

Node.js

In Node.js, colors are enabled when stderr is a TTY. You also should install the `[^]supports-color`](https://npmjs.org/supports-color) module alongside debug, otherwise debug will only use a small handful of basic colors.`

Web Browser

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting option. These are WebKit web inspectors, Firefox ([since version 31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/)) and the Firebug plugin for Firefox (any version).

Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

Conventions

If you're using this in one or more of your libraries, you should use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you should prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, `DEBUG=*,-connect:*` would include all debuggers except those starting with "connect:".

Environment Variables

When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

| Name | Purpose |
|----------------------------------|---|
| <code>`DEBUG`</code> | Enables/disables specific debugging namespaces. |
| <code>`DEBUG_HIDE_DATE`</code> | Hide date from debug output (non-TTY). |
| <code>`DEBUG_COLORS`</code> | Whether or not to use colors in the debug output. |
| <code>`DEBUG_DEPTH`</code> | Object inspection depth. |
| <code>`DEBUG_SHOW_HIDDEN`</code> | Shows hidden properties on inspected objects. |

Note: The environment variables beginning with ``DEBUG_`` end up being converted into an Options object that gets used with ``%o`/`%O`` formatters. See the Node.js documentation for `[util.inspect()]` (https://nodejs.org/api/util.html#util_util_inspect_object_options) for the complete list.

Formatters

Debug uses `[printf-style]` (https://wikipedia.org/wiki/Printf_format_string) formatting. Below are the officially supported formatters:

| Formatter | Representation |
|-------------------|--|
| <code>`%O`</code> | Pretty-print an Object on multiple lines. |
| <code>`%o`</code> | Pretty-print an Object all on a single line. |
| <code>`%s`</code> | String. |
| <code>`%d`</code> | Number (both integer and float). |
| <code>`%j`</code> | JSON. Replaced with the string <code>'[Circular]'</code> if the argument contains circular references. |
| <code>`%%`</code> | Single percent sign (<code>'%'</code>). This does not consume an argument. |

Custom formatters

You can add custom formatters by extending the ``debug.formatters`` object. For example, if you wanted to add support for rendering a Buffer as hex with ``%h``, you could do something like:

```
```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
 return v.toString('hex')
}

// elsewhere
```

```
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
// foo this is hex: 68656c6c6f20776f726c6421 +0ms
...

```

## ## Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify), or just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest), if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`. Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. You can enable this using `localStorage.debug`:

```
```js
localStorage.debug = 'worker:*'
...

```

And then refresh the page.

```
```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 b('doing some work');
}, 1200);
...

```

## ## Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example [stdout.js](./examples/node/stdout.js):

```
```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used

```

```

error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
...

## Extend
You can simply extend debugger
```js
const log = require('debug')('auth');

//creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
...

```

### ## Set dynamically

You can also enable debug dynamically by calling the `enable()` method :

```

```js
let debug = require('debug');

console.log(1, debug.enabled('test'));

debug.enable('test');
console.log(2, debug.enabled('test'));

debug.disable();
console.log(3, debug.enabled('test'));

...

print :
...

```

```
1 false
2 true
3 false
...

```

Usage :

```
`enable(namespaces)`
```

`namespaces` can include modes separated by a colon and wildcards.

Note that calling `enable()` completely overrides previously set DEBUG variable :

```
...
```

```
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
```

```
=> false
```

```
...
```

```
## Checking whether a debug target is enabled
```

After you've created a debug instance, you can determine whether or not it is enabled by checking the `enabled` property:

```
```javascript
```

```
const debug = require('debug')('http');
```

```
if (debug.enabled) {
```

```
 // do stuff...
```

```
}
```

```
```
```

You can also manually toggle this property to force the debug instance to be enabled or disabled.

```
## Authors
```

```
- TJ Holowaychuk
```

```
- Nathan Rajlich
```

```
- Andrew Rhyne
```

```
## Backers
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/*

* SpanDSP - a series of DSP components for telephony

*

* g711.h - In line A-law and u-law conversion routines

*

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curl

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dynamic_annotations

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eigen3

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```
CXXFLAGS: -DEIGEN_MPL2_ONLY
```

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Following applies to:

`./test/mapstaticmethods.cpp`

./test/schur_real.cpp
./test/prec_inverse_4x4.cpp
./test/smallvectors.cpp
./test/redux.cpp
./test/special_numbers.cpp
./test/adjoint.cpp
./test/resize.cpp
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp
./test/miscmatrices.cpp
./test/stddeque.cpp
./test/integer_types.cpp
./test/product_large.cpp
./test/eigensolver_generic.cpp
./test/householder.cpp
./test/geo_orthomethods.cpp
./test/array_for_matrix.cpp
./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
./test/nomalloc.cpp
./test/packetmath.cpp
./test/jacobisvd.cpp
./test/geo_transformations.cpp
./test/swap.cpp
./test/eigensolver_selfadjoint.cpp
./test/inverse.cpp
./test/product_selfadjoint.cpp
./test/product_trsolve.cpp
./test/product_extra.cpp
./test/sparse_solver.h
./test/mapstride.cpp
./test/mapped_matrix.cpp
./test/geo_eulerangles.cpp
./test/eigen2support.cpp
./test/denseLM.cpp
./test/stdvector.cpp
./test/nesting_ops.cpp
./test/sparse_permutations.cpp
./test/zerosized.cpp
./test/exceptions.cpp
./test/vectorwiseop.cpp
./test/cwiseop.cpp
./test/basicstuff.cpp
./test/product_trmm.cpp
./test/linearstructure.cpp

./test/sparse_product.cpp
./test/stdvector_overload.cpp
./test/stable_norm.cpp
./test/umeyama.cpp
./test/unalignedcount.cpp
./test/triangular.cpp
./test/product_mmtr.cpp
./test/sparse_basic.cpp
./test/sparse_vector.cpp
./test/meta.cpp
./test/real_qz.cpp
./test/ref.cpp
./test/eigensolver_complex.cpp
./test/cholmod_support.cpp
./test/conjugate_gradient.cpp
./test/sparse.h
./test/simplicial_cholesky.cpp
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./test/geo_hyperplane.cpp
./test/lu.cpp
./test/qr.cpp
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./test/geo_alignedbox.cpp
./test/diagonalmatrices.cpp
./test/product_small.cpp
./test/eigensolver_generalized_real.cpp
./test/umfpack_support.cpp
./test/first_aligned.cpp
./test/qr_fullpivoting.cpp
./test/array_replicate.cpp
./test/geo_parametrizedline.cpp

./test/eigen2/eigen2_unalignedassert.cpp
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--- end of FTL.TXT ---

GL

Mesa Component Licenses

| Component | Location | Primary Author | License |
|------------------|--|----------------|------------------|
| Main Mesa code | src/mesa/ | Brian Paul | Mesa (MIT) |
| Device drivers | src/mesa/drivers/* | See drivers | See drivers |
| Ext headers | include/GL/glxt.h
include/GL/glxext.h | SGI | SGI Free B |
| GLUT | src/glut/ | Mark Kilgard | Mark's copyright |
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| Mesa GLU library | src/glu/mesa/ | Brian Paul | GNU-LGPL |
| SGI GLU library | src/glu/sgi/ | SGI | SGI Free B |
| demo programs | progs/demos/ | various | see source files |
| X demos | progs/xdemos/ | Brian Paul | see source files |
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javascript/jquery_ui

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javascript/jquery/v2_0_1

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javascript/tracing_framework

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java_src/android_libs/exoplayer

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java_src/android_libs/protobuf_nano/v2

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jpeg

(extracted from src/README)

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libunwind

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libxml

Libxml2, an XML C Parser

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mongoose

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objective_c/gtm_session_fetcher

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openctm

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utf

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xmpmeta

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Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

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(ii) the United Nations Convention on Contracts for the International Sale of

Goods will not apply to this Agreement; and

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- The Licensed Software's help tool ("Qt Assistant")
- The Licensed Software's internationalization tools ("Qt Linguist", "lupdate", "lrelease")

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- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")

- The Licensed Software's Resource Compiler ("rcc")

- The Licensed Software's generator (only in the case of Qt Jambi if applicable)

- The Licensed Software's parts of the IDE tool ("Qt Creator")

- The Licensed Software's Emulator

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NPM License Checker

=====

[![Build Status](https://www.travis-ci.org/davglass/license-checker.svg?branch=master)](https://www.travis-ci.org/davglass/license-checker)

As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimiters instead of commas. Some license names contain commas and it messed with the parsing

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```
```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
license-checker
```
```

You should see something like this:

```
```
cli@0.4.3
 repository: http://github.com/chriso/cli
 licenses: MIT
glob@3.1.14
 repository: https://github.com/isaacs/node-glob
 licenses: UNKNOWN
graceful-fs@1.1.14
 repository: https://github.com/isaacs/node-graceful-fs
 licenses: UNKNOWN
```
```

```
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
lru-cache@2.0.4
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
minimatch@0.0.5
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
minimatch@0.2.9
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
sigmund@1.0.0
  repository: https://github.com/isaacs/sigmund
  licenses: UNKNOWN
yui-lint@0.1.1
  licenses: BSD
  repository: http://github.com/yui/yui-lint
...

```

An asterisk next to a license name means that it was deduced from an other file than package.json (README, LICENSE, COPYING, ...)
You could see something like this:

```
...
debug@2.0.0
  repository: https://github.com/visionmedia/debug
  licenses: MIT*
...

```

Options

- * `--production` only show production dependencies.
- * `--development` only show development dependencies.
- * `--start [path of the initial json to look for]`
- * `--unknown` report guessed licenses as unknown licenses.
- * `--onlyunknown` only list packages with unknown or guessed licenses.
- * `--json` output in json format.
- * `--csv` output in csv format.
- * `--csvComponentPrefix` prefix column for component in csv format.
- * `--out [filepath]` write the data to a specific file.
- * `--customPath` to add a custom Format file in JSON

- * `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
- * `--relativeLicensePath` output the location of the license files as relative paths
- * `--summary` output a summary of the license usage',
- * `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
- * `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-separated list
- * `--packages [list]` restrict output to the packages (package@version) in the semicolon-separated list
- * `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-separated list
- * `--excludePrivatePackages` restrict output to not include any package marked as private
- * `--direct` look for direct dependencies only

Exclusions

A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](<https://spdx.org/licenses/>).

You can use valid SPDX expressions like `'MIT OR X11'`.

You can use non-valid SPDX identifiers, like `'Public Domain'`, since `npm` does support some license strings that are not SPDX identifiers.

Examples

...

```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
...
```

Custom format

The `--customPath` option can be used with CSV to specify the columns. Note that the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:

- name
- version
- description
- repository
- publisher
- email

- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.

See an example in customFormatExample.json.

Requiring

```

```js
var checker = require('license-checker');

checker.init({
 start: '/path/to/start/looking'
}, function(err, packages) {
 if (err) {
 //Handle error
 } else {
 //The sorted package data
 //as an Object
 }
});
```

```

Debugging

license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. There's two internal markers:

- * `license-checker:error` for errors
- * `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```

```shell
$ export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
 repository: http://github.com/chriso/cli
 licenses: MIT
...
```

```

How Licenses are Found

We walk through the `node_modules` directory with the `[read-installed]` (<https://www.npmjs.org/package/read-installed>) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s, We try to identify the license with the `[spdx]` (<https://www.npmjs.com/package/spdx>) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the ``*`` next to the name of the license to show that we "guessed" at it. The Mesa header files use the following licenses.

=====

The default Mesa license is as follows:

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* \$Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

* Portable Audio I/O Library

* Memory barrier utilities

*

* Author: Bjorn Roche, XO Audio, LLC

*

* This program uses the PortAudio Portable Audio Library.

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*/  
  
/*  
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $  
* Portable Audio I/O Library  
* Ring Buffer utility.  
*  
* Author: Phil Burk, http://www.softsynth.com  
* modified for SMP safety on Mac OS X by Bjorn Roche  
* modified for SMP safety on Linux by Leland Lucius  
* also, allowed for const where possible  
* modified for multiple-byte-sized data elements by Sven Fischer  
*  
* Note that this is safe only for a single-thread reader and a  
* single-thread writer.  
*  
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Mesa 3-D graphics library

Version: 7.0

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- Adapted from Ruby on Rails - <http://dev.rubyonrails.org/browser/spinoffs/prototype/src>
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`cssmin.py` - A Python port of the YUI CSS compressor.

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
 - `libavcodec/x86/flac_dsp_gpl.asm`
 - `libavcodec/x86/idct_mmx.c`
 - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
 - `compat/solaris/make_sunver.pl`
 - `doc/t2h.pm`
 - `doc/txi2pod.pl`
 - `libswresample/tests/swresample.c`
 - `tests/checkasm/*`
 - `tests/tiny_ssim.c`
- the following filters in libavfilter:
 - `signature_lookup.c`
 - `vf_blackframe.c`
 - `vf_boxblur.c`
 - `vf_colormatrix.c`
 - `vf_cover_rect.c`
 - `vf_cropdetect.c`
 - `vf_delogo.c`
 - `vf_eq.c`
 - `vf_find_rect.c`
 - `vf_fspp.c`
 - `vf_histeq.c`
 - `vf_hqdn3d.c`
 - `vf_kerndeint.c`
 - `vf_lensfun.c` (GPL version 3 or later)

- `vf_mcdeint.c`
- `vf_mpdecimate.c`
- `vf_nnedi.c`
- `vf_owdenoise.c`
- `vf_perspective.c`
- `vf_phase.c`
- `vf_pp.c`
- `vf_pp7.c`
- `vf_pullup.c`
- `vf_repeatfields.c`
- `vf_sab.c`
- `vf_signature.c`
- `vf_smartblur.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vf_vaguedenoiser.c`
- `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

- * The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
- * `tests/reference.pnm` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL version 2:

- avisynth
- freiOr
- libcdio

- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:

- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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```
#!/usr/bin/env node
```

```
/*
```

```
Copyright (c) 2013, Yahoo! Inc. All rights reserved.
```

```
Code licensed under the BSD License:
```

```
http://yuilibrary.com/license/
```

```
*/
```

```
var checker = require('./lib/index');
```

```
var args = require('./lib/args').parse();
```

```
var mkdirp = require('mkdirp');
```

```
var path = require('path');
```

```
var chalk = require('chalk');
```

```
var fs = require('fs');
```

```
if (args.help) {
```

```
  console.error('license-checker@' + require('./package.json').version);
```

```
  var usage = [
```

```
    "
```

```
    ' --production only show production dependencies.',
```

```
    ' --development only show development dependencies.',
```

```
    ' --unknown report guessed licenses as unknown licenses.',
```

```
    ' --start [path of the initial json to look for]',
```

```
    ' --onlyunknown only list packages with unknown or guessed licenses.',
```

```
    ' --json output in json format.',
```

```
    ' --csv output in csv format.',
```

```
    ' --csvComponentPrefix column prefix for components in csv file',
```

```
    ' --out [filepath] write the data to a specific file.',
```

```
    ' --customPath to add a custom Format file in JSON',
```

```
    ' --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
```

```
    ' --relativeLicensePath output the location of the license files as relative paths',
```

```
    ' --summary output a summary of the license usage',
```

```
    ' --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
```

```
    ' --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-separated
```

```
list',
```

```
    ' --direct look for direct dependencies only',
```

```
    ' --packages [list] restrict output to the packages (package@version) in the semicolon-separated list',
```

```
    ' --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-separated
```

```
list',
```

```
    ' --excludePrivatePackages restrict output to not include any package marked as private',
```

```
    "
```

```
    ' --version The current version',
```

```
    ' --help The text you are reading right now :)',
```

```
    "
```

```
  ];
```

```
  console.error(usage.join('\n'), '\n');
```

```
  process.exit(0);
```

```
}
```

```
if (args.version) {
```

```
  console.error(require('./package.json').version);
```

```
  process.exit(1);
```

```

}

if (args.failOn && args.onlyAllow) {
  console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
```

process.exit(1);

```

} else {
  var argValue = args.failOn || args.onlyAllow;
  if (argValue && argValue.indexOf(',') >= 0) {
    var argName = args.failOn ? 'failOn' : 'onlyAllow';
    console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimiters instead of
commas (some license names can contain commas)');
```

}

```

}

checker.init(args, function(err, json) {

  var formattedOutput = "";

  if (!!err) {
    console.error('Found error');
    console.error(err);
  }

  if (shouldColorizeOutput(args)) {
    var keys = Object.keys(json);
    keys.forEach(function(key) {
      var keyParts = key.split('@');
      var coloredKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
      json[coloredKey] = json[key];
      delete json[key];
    });
  }

  if (args.json) {
    formattedOutput = JSON.stringify(json, null, 2) + '\n';
  } else if (args.csv) {
    formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
  } else if (args.markdown) {
    formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
  } else if (args.summary) {
    formattedOutput = checker.asSummary(json);
  } else {
    formattedOutput = checker.asTree(json);
  }

  if (args.files) {
    checker.asFiles(json, args.files);
  } else if (args.out) {

```



```
    var dir = path.dirname(args.out);
    mkdirp.sync(dir);
    fs.writeFileSync(args.out, formattedOutput, 'utf8');
  } else {
    console.log(formattedOutput);
  }
});

function shouldColorizeOutput(args) {
  return args.color && !args.out && !(args.csv || args.json || args.markdown);
}
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"Term" shall have the meaning set forth in Section 12.

"The Qt Company" shall mean:

- (i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 2350 Mission College Blvd.,

Suite 1020, Santa Clara, CA 95054, USA.; or

- (ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Bertel Jungin aukio D3A, 02600 Espoo, Finland.

"Third-Party Software" shall have the meaning set forth in Section 4.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

2. OWNERSHIP

2.1. Ownership of The Qt Company

The Licensed Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Licensed Software is licensed, not sold.

All of The Qt Company's Intellectual Property Rights are and shall remain the exclusive property of The Qt Company or its licensors respectively.

2.2. Ownership of Licensee

All the Licensee's Intellectual Property Rights are and shall remain the exclusive property of the Licensee or its licensors respectively.

All Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

2.3. Modified Software

Licensee may create bug-fixes, error corrections, patches or modifications to the Licensed Software ("Modified Software"). Such Modified Software may break the source or binary compatibility with the Licensed Software (including without limitation through changing the application programming interfaces ("API") or by adding, changing or deleting any variable, method, or class signature in the

Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries). To the extent that Licensee's Modified Software so breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that The Qt Company's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted.

Licensee may, at its sole and absolute discretion, choose to submit Modified Software to The Qt Company ("Submitted Modified Software") in connection with Licensee's Support request, service request or otherwise. In the event Licensee does so, then, Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion.

3. LICENSES GRANTED

3.1. Development with Licensed Software

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the License Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other related services to end-user Customers. Each Application and/or Device can only include, incorporate or integrate code generated under this Agreement by such Designated Users who are duly licensed for the applicable Development Platform(s) and Deployment Platform(s) (i.e have a valid license for the appropriate Licensed Software product).

Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software.

Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

Upon expiry of the initially agreed License Term, the respective License Terms shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the License Term, such notification to be provided to the other Party no less than thirty (30) days before expiry of the respective License Term.

Unless otherwise agreed between the Parties, Renewal Term shall be of equal length with the initial License Term.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

The Qt Company may request the Licensee to place a purchase order corresponding to a quote by The Qt Company for the relevant Renewal Term.

In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective notification from The Qt Company and/or the respective License Fee paid by due date specified in The Qt Company's respective invoice, The Qt Company shall apply a reinstatement fee equal to ten percent (10 %) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

In the event Licensee chooses not to renew a Development License for a Renewal Term by notifying The Qt Company thereof no less than thirty (30) days before expiry of the respective License Term, Licensee may still reinstate such expired Development Licenses for a Renewal Term subject to applicable renewal Term License Fees until thirty (30) days from the expiry of the initially agreed License Term or preceding Renewal Term. After such thirty (30) day period a Development License shall be subject to applicable License Fees for a new Development License and not any Renewal Term License Fees.

3.2. Distribution of Applications

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

- (i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and
- (ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

Right to distribute the Redistributables as part of an Application as provided herein is not royalty-bearing but is conditional upon the Licensee not having any unpaid License Fees for Development Licenses owed to The Qt Company at the time of distribution of any Redistributables to Customers.

3.3. Distribution of Devices

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to

this Agreement) right and license, valid for the Term, to

- (i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and
- (ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Devices for their respective intended purposes.

Right to distribute the Redistributables with Devices as provided herein is conditional upon the Licensee (i) not having any unpaid License Fees for Development Licenses owed to The Qt Company, and (ii) having purchased and paid corresponding Distribution Licenses at the time of distribution of any Redistributables to Customers.

3.4. Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

- (i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;
- (ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;
- (iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);
- (iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;
- (v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;
- (vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;
- (vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the

Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;

- (viii) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution). Notwithstanding what is provided above in this sub-section (viii), Licensee is entitled to use and combine Licensed Software with any Permitted Software;
- (ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);
- (x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and
- (xi) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions.

Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed

Software. Such Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER

WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's usiness activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond

scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

- (i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
- (ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this

Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the

addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

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APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

| Modules / Tools | QtAD | QtDC | QtMCU | Qt3DS | QtDS |
|-----------------------|------|------|-------|-------|------|
| Qt Core | X, R | X, R | | | |
| Qt GUI | X, R | X, R | | | |
| Qt Multimedia | X, R | X, R | | | |
| Qt Multimedia Widgets | X, R | X, R | | | |
| Qt Network | X, R | X, R | | | |
| Qt QML | X, R | X, R | | | |
| Qt Quick | X, R | X, R | | | |
| Qt Quick Controls 2 | X, R | X, R | | | |
| Qt Quick Dialogs | X, R | X, R | | | |
| Qt Quick Layouts | X, R | X, R | | | |
| Qt Quick Test | X, R | X, R | | | |
| Qt SQL | X, R | X, R | | | |
| Qt Test | X, R | X, R | | | |
| Qt Widgets | X, R | X, R | | | |
| Active Qt | X, R | X, R | | | |

| | | | | | |
|--------------------------|------|------|--|--|--|
| Qt 3D | X, R | X, R | | | |
| Qt Android Extras | X, R | X, R | | | |
| Qt Bluetooth | X, R | X, R | | | |
| Qt Canvas 3D | X, R | X, R | | | |
| Qt Concurrent | X, R | X, R | | | |
| Qt D-Bus | X, R | X, R | | | |
| Qt Gamepad | X, R | X, R | | | |
| Qt Graphical Effects | X, R | X, R | | | |
| Qt Help | X, R | X, R | | | |
| Qt Image Formats | X, R | X, R | | | |
| Qt Location | X, R | X, R | | | |
| Qt Mac Extras | X, R | X, R | | | |
| Qt Network Authorization | X, R | X, R | | | |
| Qt NFC | X, R | X, R | | | |
| Qt Platform Headers | X, R | X, R | | | |
| Qt Positioning | X, R | X, R | | | |
| Qt Print Support | X, R | X, R | | | |
| Qt Purchasing | X, R | X, R | | | |
| Qt for Python | X, R | X, R | | | |
| Qt Quick Controls | X, R | X, R | | | |
| Qt Quick Extras | X, R | X, R | | | |
| Qt Quick Widgets | X, R | X, R | | | |
| Qt SCXML | X, R | X, R | | | |
| Qt Sensors | X, R | X, R | | | |

| | | | | | |
|----------------------------------|------|------|------|--|--|
| Qt Serial Bus | X, R | X, R | | | |
| Qt Serial Port | X, R | X, R | | | |
| Qt Speech | X, R | X, R | | | |
| Qt SVG | X, R | X, R | | | |
| Qt UI Tools | X, R | X, R | | | |
| Qt WebChannel | X, R | X, R | | | |
| Qt WebEngine | X, R | X, R | | | |
| Qt WebSockets | X, R | X, R | | | |
| Qt WebView | X, R | X, R | | | |
| Qt Windows Extras | X, R | X, R | | | |
| Qt X11 Extras | X, R | X, R | | | |
| Qt XML | X, R | X, R | | | |
| Qt XML Patterns | X, R | X, R | | | |
| Qt Wayland Compositor | X, R | X, R | | | |
| Qt Charts | X, R | X, R | | | |
| Qt Data visualization | X, R | X, R | | | |
| Qt Virtual Keyboard | X, R | X, R | | | |
| Boot 2 Qt stack | | X, R | | | |
| Qt OTA | | X, R | | | |
| Device Utilities | | X, R | | | |
| Qt Debugging Bridge (QDB) Daemon | | X, R | | | |
| Qt Quick Ultralite Controls | | | X, R | | |
| Qt Quick Ultralite | | | X, R | | |
| Qt Creator | X | X | X | | |

| | | | | | | |
|---------------------------------------|---|---|---|------|---|--|
| Qt Designer (Qt Widget Designer) | X | X | | | | |
| Qt Quick Designer (Qt Creator plugin) | X | X | X | | | |
| Qt Linguist | X | X | X | | | |
| Qt Assistant | X | X | X | | | |
| Lupdate | X | X | X | | | |
| Lrelease | X | X | X | | | |
| Qmake | X | X | | | | |
| Uic | X | X | | | | |
| Rcc | X | X | | | | |
| Qlalc | X | X | | | | |
| Qdoc | X | X | | | | |
| Qmlscene | X | X | | | | |
| Qmlviewer | X | X | | | | |
| Target toolchains | | X | X | | | |
| Qt Debugging Bridge (QDB) Host Tools | | | X | | | |
| qtconfig-gui | | X | | | | |
| Qt Emulator | | X | | | | |
| Qmlinterfacegenerator | | | X | | | |
| Qmltoccpp | | | X | | | |
| qulfontcompiler | | | X | | | |
| Qt53DStudioRuntime2 | | | | X, R | | |
| Qt 3D Studio | | | | X | | |
| Qt Design Studio | | | | | X | |

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|--------------------------------------|-------------------|---------------|---------|----------------|-------------|---------------|--|
| Modules / Tools of Licensed Software | Qt for Automation | Qt Automotive | Qt Safe | Qt Application | Qt GammaRay | Qt Deployment | |
| Qt MQTT | X, R | | | | | | |
| Qt KNX | X, R | | | | | | |
| Qt OPC UA | X, R | | | | | | |
| Qt CoAP | X, R | | | | | | |
| Qt Safe Renderer | | X, R | X, R | | | | |
| Qt Application Manager | | X, R | | X, R | | | |
| Qt IVI | | X, R | | | | | |
| Reference UI | | X, R | | | | | |
| Qt GENIVI Extras | | X, R | | | | | |
| QML Live | | X | | | | | |
| Qt Creator | | X | | | | | |
| Deployment | | | | | | | |

| | | | | | | | |
|----------------------------|--|---|--|---|---|---|--|
| Qt Creator Plugin | | X | | X | | | |
| for Qt Application Manager | | | | | | | |
| Qt Automotive Suite | | X | | | | | |
| Deployment Server | | | | | | | |
| Qt Design Studio | | X | | | | | |
| Qt 3D Studio | | X | | | | | |
| GammaRay | | X | | | X | | |
| Platform adaptations | | | | | | X | |
| for specified | | | | | | | |
| Deployment Platforms | | | | | | | |
| Qt for Device | | X | | | | | |
| Creation | | | | | | | |

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`^tools/utis/qtcreator/`

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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Change Log

v25.0.1 (2019/01/10 19:29 +00:00)

- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169) Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c) changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06) contrib (@davglass)

v25.0.0 (2019/01/10 15:09 +00:00)

- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083fdf6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fix/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184) Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

v24.1.0 (2018/12/14 20:54 +00:00)

- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cbb1) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

v24.0.1 (2018/10/11 16:40 +00:00)

- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae8bcb80d8582e6d12c5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87ebb75a32578c7ac5837806d12f) contrib and changes (@davglass)

v24.0.0 (2018/10/09 21:12 +00:00)

- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27cafbe6e8481b) 24.0.0 (@davglass)

- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cff962d69d1521dc9ac2) changelog (@davglass)

v23.0.0 (2018/10/09 14:37 +00:00)

- [f243287](https://github.com/davglass/license-checker/commit/f243287fbce6da33838a226ddfe8c412535390d4) 23.0.0 (@davglass)
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e7167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

v22.0.0 (2018/10/08 19:00 +00:00)

- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

v21.0.0 (2018/10/06 13:24 +00:00)

- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8fb7cb9d6398) [Fixes #174] - Moved private and unknown detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ffb) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd102466c702065d42706392c11717cc1d) changelog (@davglass)

v20.2.0 (2018/07/30 13:49 +00:00)

- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict_packages (@codepunkt)

- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fec913b8042f38d) refactor: restore previous code style (@codepunkt)
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d6829602793e13233d3da2d97b92ee2044c6) test: add test for --packages flag (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0dfd4f8db7ea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)

v20.1.0 (2018/06/07 14:33 +00:00)

- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

v20.0.0 (2018/05/17 14:14 +00:00)

- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df77cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
- [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3aefb1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb25bcc8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

v19.0.0 (2018/04/30 14:51 +00:00)

- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb6466670ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbc681f736f159d63908cd39ce9) upgrading packages (@davglass)
- [442aee6](https://github.com/davglass/license-checker/commit/442aee69b5d44e47bfd2e441c4e1f86d387e49c6) Changlog (@davglass)

v18.1.0 (2018/04/30 14:16 +00:00)

- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)

- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142c0d1f556f01f7d754737a4c) Link with customFormat (@zodiac403)
- [f83aaae](https://github.com/davglass/license-checker/commit/f83aaae85ad4cc2e9880802951dfacbc86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66) Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8aada0d227913b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdae0cbf689a0cd260a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)
- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffc9f0d01ef37bb84ffbacc65e007b) remove the old status badge (@honzajavorek)

v18.0.0 (2018/03/20 12:30 +00:00)

- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa82342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccfff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)

- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccf1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bcff80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

v17.0.0 (2018/03/19 13:26 +00:00)

- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fce91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144) Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844cf36185dea395e0893ff08) [fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3fd6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

v16.0.0 (2018/01/18 15:02 +00:00)

- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

v15.0.0 (2017/10/19 14:24 +00:00)

- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beeff870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency. (#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932) app - strengthening license guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2ba7b2bfa77def0e73) changes (@davglass)

v14.0.0 (2017/08/28 13:22 +00:00)

- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)

- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

v13.1.0 (2017/08/25 15:00 +00:00)

- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)

- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f) changes (@davglass)

- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)

- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with counts of the used licenses (#121) (@tobilg)

- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)

- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peteruithoven)

- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)

- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

v13.0.3 (2017/08/04 17:15 +00:00)

- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)

- [fadddc8](https://github.com/davglass/license-checker/commit/fadddc895ef9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)

- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482) changes (@davglass)

v13.0.2 (2017/07/18 16:24 +00:00)

- [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7eefe916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)

- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

v13.0.1 (2017/07/17 12:48 +00:00)

- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44) 13.0.1 (@davglass)

- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5c22fd74ef26267994) contrib & changes (@davglass)

- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)

- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

v13.0.0 (2017/07/14 12:49 +00:00)

- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4)

13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dafc809373f)
cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file
or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and
LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109)
(@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them
as UNLICENSED (#108) (@dancrumb)

v12.1.0 (2017/07/12 16:48 +00:00)

- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662ccb8)
12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3)
updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107) Merge pull request #107 from
dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87)
FEATURE: Add support for Public Domain licenses (@dancrumb)

v12.0.0 (2017/07/05 13:33 +00:00)

- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621)
12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4fa70ed400)
changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-
readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc)
src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b)
changes & contrib (@davglass)

v11.0.0 (2017/05/30 13:33 +00:00)

- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd)
11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-
licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9c4)
Check for SPDX-compatible licenses (@xswordsx)

v10.1.0 (2017/05/25 16:16 +00:00)

- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1)
10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e)
contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format

(#100) (@tbbstny)
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85)
changelog (@davglass)

v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6)
10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938)
[fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad)
[fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint
(@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500)
moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d)
changelog (@davglass)

v9.0.3 (2017/04/10 13:42 +00:00)
- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27)
9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component
(@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff)
test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351)
feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2)
added contrib (@davglass)

v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895)
9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-comma-
exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee)
contrib & changelog (@davglass)

v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca)
9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fbaf6e8ed9)
added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-
customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix:
allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0feb22f50ddbce54364eef5b7bcc7f1a4)

test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a)
feat: add licenseText only for customFormat
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3)
updated contribs and changelog (@davglass)

v9.0.0 (2017/04/04 12:26 +00:00)

- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd)
9.0.0 (@davglass)
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809)
added licenseFile assertion to tests (@davglass)
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dcae89172943a0f)
fix: replace problematic chars for easy import to Excel (@abtris)
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d001491f58dbe0f5e3e63)
feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2)
changes and contrib (@davglass)

v8.0.4 (2017/02/15 16:21 +00:00)

- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295)
8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8fe5f96ee3a6)
guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d32e6f3e63215d6530d7fb4acc59)
Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e)
changes (@davglass)

v8.0.3 (2016/11/10 17:04 +00:00)

- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85)
8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0)
guess CC0-1.0, upgraded jshint (@drewfish)

v8.0.2 (2016/11/09 21:57 +00:00)

- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5ffacde1c12cc708185a5b866)
8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544)
updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551cbb5c5ce8aa76fb5367857c891d013)

Changelog (@davglass)

v8.0.1 (2016/11/09 21:51 +00:00)

- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474) changelog (@davglass)

v8.0.0 (2016/09/09 13:23 +00:00)

- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fdf89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcbdd6f](https://github.com/davglass/license-checker/commit/dfcbdd6f4966adc74e065f71e45cbd08ba8fe62ab) changelog (@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

v7.1.1 (2016/09/07 19:16 +00:00)

- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

v7.1.0 (2016/09/07 15:12 +00:00)

- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa) 7.1.0 (@davglass)
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8c8a85870db3f4a6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

v7.0.0 (2016/09/06 14:50 +00:00)

- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)

- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eca582ad4bb816879) Added contributors (@davglass)

v6.0.0 (2016/08/26 19:46 +00:00)

- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171aeb01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa1025de53bf10f) Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c7922bbc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046) Cleaned up some code (@davglass)
- [f753998](https://github.com/davglass/license-checker/commit/f753998a06cbb5fd9fff6430b3588a3b3cf81339) Merge branch 'master' of git://github.com/amittkSharma/license-checker into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a97d14c883f6479579844b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdfa4124f237f8aa15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ffc6f](https://github.com/davglass/license-checker/commit/26ffc6f63d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

v5.1.2 (2016/05/04 18:32 +00:00)

- [7101c77](https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67) Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7fcced220dcfe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

v5.1.1 (2016/04/14 13:20 +00:00)

- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdab664a381cfc4) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

v5.1.0 (2016/03/09 15:50 +00:00)

- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f) 5.1.0 (@davglass)
- [#61](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgtldck/master (@sgtldck)
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e) Removed obsolete d[key].name assignment from tests (@sgtldck)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtldck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda) Added latest contributors (@davglass)

v5.0.1 (2016/02/08 15:57 +00:00)

- [33731fc](https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625) 5.0.1 (@davglass)
- [fe06eae](https://github.com/davglass/license-checker/commit/fe06eaeef8844d050ad0f80d576a221dd605131de) Fixed replace (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [#57](https://github.com/davglass/license-checker/pull/57) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8eaa008c7593037d046f245a7ce7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5) updated contributors (@davglass)

v5.0.0 (2016/01/22 15:31 +00:00)

- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag (@davglass)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfea91a6ec6) supporting --production and --development flags (@davglass)
- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)
- [#54](https://github.com/davglass/license-checker/pull/54) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dcc59340698630144256096a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e) travis config updates (@davglass)
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b1f290fae15963fbb2ab4) Add debug to project. (@swashcap)

v4.2.0 (2015/10/20 13:44 +00:00)

- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fc9f63b3bbf0110b11c8448aed0e7) 4.2.0 (@davglass)
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

v4.1.2 (2015/09/29 13:46 +00:00)

- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dceccdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd) Fix json, csv and markdown output for license-checker (@mattiasa)

v4.1.1 (2015/09/12 14:39 +00:00)

- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842eca4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

v4.1.0 (2015/09/09 14:52 +00:00)

- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dee2f39b3bbf07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbdf8d50e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feacfc297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578cc48c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9e0aab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)
- [83caa10](https://github.com/davglass/license-checker/commit/83caa10493a5a05ffba6c0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbe5feeb7bd356ebef3cd34e69329dbc8c1)

More tests for the custom formatter (@ptusch)

- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fea8d9ecc)

Add tests for customFormatter (@ptusch)

- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b7b2cccdd053ba63f4fd2a6a6d0a46493)

Add test configs (@ptusch)

- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6aba63abd2129625825c3b5a6570)

Fix merge issues - semicolon slipped through (@ptusch)

- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ac2b782f937dc54ef)

Merge branch 'master' into ft_error_handling (@ptusch)

- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73cbd7cf62af533)

Add additional test (@ptusch)

- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5cbc345736ebe6e97f400a27a773502d2)

Add parseJson test (@ptusch)

- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417)

Fix tests after merge conflict (@ptusch)

- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768bbb457fe8dc44)

Merge branch 'master' into ft_custom_format (@ptusch)

- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374)

Add tests for customFormat (@ptusch)

v4.0.0 (2015/09/04 13:40 +00:00)

- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beb17e)

4.0.0 (@davglass)

- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2ffe7f)

tests: added 100% coverage for license file (@davglass)

- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown (@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372abf68)

Add tests for the error generation (@ptusch)

- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c903a5bc127ad2692)

Add error handling (@ptusch)

- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b09eecff16bbf982db682)

Add additional check to negate the test (@ptusch)

- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13ef967a)

Add test for the first function call. (@ptusch)

- [faf8ffd](https://github.com/davglass/license-checker/commit/faf8ffd69fd8ae475484a9b47b57a7b6ea738856)

Remove trivial UNKNOWN check (@ptusch)

- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990edf52adfc0e2)

Merge branch 'master' into ft_custom_format (@ptusch)

- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991cfc40dc6980fbf13461408da822b1f)

Merge branch 'master' into ft_onlyunknown (@ptusch)

- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7ecd0304a39c5cf079efe6a7c)

Add option to only show unknown licenses (@ptusch)

- [#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540)

Add test for exclude option. (@senotrusov)

- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba)

Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297) Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fdb06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476ffe5ae3768fb9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aead3624b81148) Add functionality to add a custom format (@ptusch)

v3.1.0 (2015/06/29 14:25 +00:00)

- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d860b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1cc1f331279e53fcce13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3aee0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

v3.0.3 (2015/06/03 13:35 +00:00)

- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8) 3.0.3 (@davglass)
- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3aef61e8c118fafc6bb43a56) spdx license (@davglass)

v3.0.2 (2015/05/12 20:29 +00:00)

- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)
- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53efe6b37a7b9d89f191bc7) defensive code, fixes #34 (@davglass)

v3.0.1 (2015/05/04 12:28 +00:00)

- [0479570](https://github.com/davglass/license-checker/commit/0479570faf87eccc9b37fbb25afaee7faaec6636)

3.0.1 (@davglass)

- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e)

Checking for valid path first (@davglass)

v3.0.0 (2015/04/24 14:38 +00:00)

- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fef7ffb18627f55a97e1863a78096)

3.0.0 (@davglass)

- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badffb3e0d033a038f17b5)

always try to find and log the license file (@davglass)

v2.0.2 (2015/01/26 18:18 +00:00)

- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f068814cfe27adf3af1ac6d58f733)

2.0.2 (@davglass)

- [a3fefdb](https://github.com/davglass/license-checker/commit/a3fefdb8fafd7ec64714defb793d757a9e8ad065)

fixes #30 (@davglass)

v2.0.1 (2015/01/12 18:34 +00:00)

- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a1735eea440c2a6c525)

2.0.1 (@davglass)

- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73efdf93cc554e4d7783af225)

cleaned up spacing and moved vars around (@davglass)

- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbbdb15bfb45e8af7f18ee0ca737)

fixes #29 (@davglass)

v2.0.0 (2014/12/04 16:34 +00:00)

- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfec7a9914b4a36f455e8bffc6230d6f7a5e)

2.0.0 (@davglass)

- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e)

syntax cleanup (@davglass)

- [d189623](https://github.com/davglass/license-checker/commit/d1896234a5649621ee57ff9a901877d769217194)

Document CLI options in README. (@timoxley)

- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eae1f165fa010da229d2a9fb4b5)

Default to --no-colour for json, csv & file output. (@timoxley)

- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330cff)

Add --out flag for writing an output file. (@timoxley)

- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaadb0dcdd731b9)

Always print to stdout, don't write files. (@timoxley)

- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfdbf0994867577d4c5e3dc0ee2a)

Don't print info messages to stdout. (@timoxley)

v1.0.1 (2014/11/27 15:23 +00:00)

- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351aa7ccff1f7af73e289afee261a5)

1.0.1 (@davglass)

- [3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c)

Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yapuchlak-fixinfiniterecursion (@davglass)

- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89fec2dc6818dc4cc1c1)

sticking vows 0.8.0 for testing (@davglass)

- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74fddd0e08dac10d5f88a8bb51ca6)
Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

v1.0.0 (2014/11/21 13:56 +00:00)

- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322)
1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088)
added options.filter to checker.init (@davglass)

v0.1.2 (2014/11/20 15:48 +00:00)

- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a)
0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291)
fixed lint issue (@davglass)

v0.1.1 (2014/11/20 15:47 +00:00)

- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235)
0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cacb3e6aa196cf8)
fixed merge issues (@davglass)

v0.1.0 (2014/11/20 15:41 +00:00)

- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7dfd86cd5f694080e4183dcb11)
0.1.0 (@davglass)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dcb659e859b9608)
Updated to newer read-installed (@davglass)

v0.0.10 (2014/08/12 12:48 +00:00)

- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adffd725a9f911331ff2b)
0.0.10 (@davglass)
- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6bcd545772c241e2e7aba8f40d5bbbb)
Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9)
colorize (@couchand)

v0.0.9 (2014/07/29 01:48 +00:00)

- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec)
0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dbcdc56f40206820bc0916b)
Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65fbf750)
case insensitive check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aee2507eaf1d00d592f6dcb59a16e7c48)
Allow for LICENCE (@gdw2)

v0.0.8 (2014/07/07 20:10 +00:00)

- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91fb0d1cfb194d034c012073f) added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276dc6e6d5635f9cb5b7e9a978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fdf38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

v0.0.7 (2014/02/26 04:52 +00:00)

- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb) Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d408ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eef6ae840d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f6246e0e7341832c6432d8b) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390fff60b31a07939e6d325796bdcfbefb5907) Added some better tests (@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452d0e41d1c4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a8b76ec9a497c1e3b83198ce97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820c63e0d56c4567f1cfad07142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d87d34c9d4f55d59f4222d) Removing unnecessary log statement (@paulmand31)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand31)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81eee0](https://github.com/davglass/license-checker/commit/a81eee0a27f580688e371cc15015e848f591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb) Updated Version (@davglass)
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c871693d4b1e9bac8c055683e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8b88e8878a95a8b153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e)

Version Bump (@davglass)

- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc1975f8c36cb59952254cd66c31017)
Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)

- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13)
Version Bump (@davglass)

- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dcc4e2bde37)
fixed special case when an empty array is passed to license/licenses (@badunk)

- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef)
fixed bug with multiple licenses objects not showing (@badunk)

- [e6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a)
cleaned up the code (@badunk)

- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19)
added check for circular dependencies (@badunk)

- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac)

Version Bump (@davglass)

- [#1](https://github.com/davglass/license-checker/pull/1) Merge pull request #1 from mwilliamson/master (@mwilliamson)

- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762)
Don't ignore license field if it's a string (@mwilliamson)

- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbaae5447492c53)

Initial Commit (@davglass)

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/*

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*/

// Original can be found at:

// <https://bitbucket.org/lindenlab/lld>

// Modifications by Joshua Bell inexorable@tash.com

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// * Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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source: <https://github.com/johan/world.geo.json>

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v4.0.1 (2016-12-14)

WHOOPS

* [[fb9b1ce`](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87719204f77ef6)](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87719204f77ef6)
Merged so many patches at once that the code fencing
([@adius](https://github.com/adius)) added got broken. Sorry,
([@adius](https://github.com/adius))!
([@othiym23](https://github.com/othiym23))

v4.0.0 (2016-12-13)

BREAKING CHANGES

* [[651d447`](https://github.com/npm/nopt/commit/651d4473946096d341a480bbe56793de3fc706aa)](https://github.com/npm/nopt/commit/651d4473946096d341a480bbe56793de3fc706aa)
When parsing String-typed arguments, if the next value is `""`, don't simply
swallow it. ([@samjonester](https://github.com/samjonester))

PERFORMANCE TWEAKS

* [[3370ce8`](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84ddbdcff252a9)](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84ddbdcff252a9)
Simplify initialization. ([@elidoran](https://github.com/elidoran))
* [[356e58e`](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdee44c2c0526a09)](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdee44c2c0526a09)
Store `Array.isArray(types[arg])` for reuse.
([@elidoran](https://github.com/elidoran))
* [[0d95e90`](https://github.com/npm/nopt/commit/0d95e90515844f266015b56d2c80b94e5d14a07e)](https://github.com/npm/nopt/commit/0d95e90515844f266015b56d2c80b94e5d14a07e)
Interpret single-item type arrays as a single type.
([@samjonester](https://github.com/samjonester))
* [[07c69d3`](https://github.com/npm/nopt/commit/07c69d38b5186450941fbb505550becb78a0e925)](https://github.com/npm/nopt/commit/07c69d38b5186450941fbb505550becb78a0e925)
Simplify key-value extraction. ([@elidoran](https://github.com/elidoran))
* [[39b6e5c`](https://github.com/npm/nopt/commit/39b6e5c65ac47f60cd43a1fbeece5cd4c834c254)](https://github.com/npm/nopt/commit/39b6e5c65ac47f60cd43a1fbeece5cd4c834c254)
Only call `Date.parse(val)` once. ([@elidoran](https://github.com/elidoran))
* [[934943d`](https://github.com/npm/nopt/commit/934943dffecb55123a2b15959fe2a359319a5dbd)](https://github.com/npm/nopt/commit/934943dffecb55123a2b15959fe2a359319a5dbd)
Use `osenv.home()` to find a user's home directory instead of assuming it's
always `\$HOME`. ([@othiym23](https://github.com/othiym23))

TEST & CI IMPROVEMENTS

* [[326ffff`](https://github.com/npm/nopt/commit/326ffff7f78a00bcd316adecf69075f8a8093619)](https://github.com/npm/nopt/commit/326ffff7f78a00bcd316adecf69075f8a8093619)
Fix `tmp` test to work on Windows.
([@elidoran](https://github.com/elidoran))
* [[c89d31a`](https://github.com/npm/nopt/commit/c89d31a49d14f2238bc6672db08da697bbc57f1b)](https://github.com/npm/nopt/commit/c89d31a49d14f2238bc6672db08da697bbc57f1b)
Only run Windows tests on Windows, only run Unix tests on a Unix.
([@elidoran](https://github.com/elidoran))

* [[affd3d1`](https://github.com/npm/nopt/commit/affd3d1d0addffa93006397b2013b18447339366)](https://github.com/npm/nopt/commit/affd3d1d0addffa93006397b2013b18447339366)
Refresh Travis to run the tests against the currently-supported batch of npm
versions. ([@helio](https://github.com/helio)-frota)
* [[55f9449`](https://github.com/npm/nopt/commit/55f94497d163ed4d16dd55fd6c4fb95cc440e66d)](https://github.com/npm/nopt/commit/55f94497d163ed4d16dd55fd6c4fb95cc440e66d)
`tap@8.0.1` ([@othiym23](https://github.com/othiym23))

DOC TWEAKS

* [[5271229`](https://github.com/npm/nopt/commit/5271229ee7c810217dd51616c086f5d9ab224581)](https://github.com/npm/nopt/commit/5271229ee7c810217dd51616c086f5d9ab224581)
Use JavaScript code block for syntax highlighting.
([@adius](https://github.com/adius))
* [[c0d156f`](https://github.com/npm/nopt/commit/c0d156f229f9994c5dfcec4a8886e9eff7a07682)](https://github.com/npm/nopt/commit/c0d156f229f9994c5dfcec4a8886e9eff7a07682)
The code sample in the README had `many2: [oneThing]`, and now it has
`many2: [two, things]`. ([@silkenentrance](https://github.com/silkenentrance))
version 1.2.11, January 15th, 2017

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information").

Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly. Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased

under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

- (i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
- (ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that

Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to

this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any

other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

| Modules/Tools | QtAD | QtDC | QtMCU | Qt3DS | QtDS |
|---------------|------|------|-------|-------|------|
| Qt Core | X,R | X,R | | | |
| Qt GUI | X,R | X,R | | | |

| | |
|-----------------------|-----------|
| Qt Multimedia | X,R X,R |
| Qt Multimedia Widgets | X,R X,R |
| Qt Network | X,R X,R |
| Qt QML | X,R X,R |
| Qt Quick | X,R X,R |
| Qt Quick Controls 2 | X,R X,R |
| Qt Quick Dialogs | X,R X,R |
| Qt Quick Layouts | X,R X,R |
| Qt Quick Test | X,R X,R |
| Qt SQL | X,R X,R |
| Qt Test | X,R X,R |
| Qt Widgets | X,R X,R |
| Active Qt | X,R X,R |
| Qt 3D | X,R X,R |
| Qt Android Extras | X,R X,R |
| Qt Bluetooth | X,R X,R |
| Qt Canvas 3D | X,R X,R |
| Qt Concurrent | X,R X,R |
| Qt D-Bus | X,R X,R |
| Qt Gamepad | X,R X,R |
| Qt Graphical Effects | X,R X,R |
| Qt Help | X,R X,R |
| Qt Image Formats | X,R X,R |
| Qt Location | X,R X,R |

| | |
|--------------------------|-----------|
| Qt Mac Extras | X,R X,R |
| Qt Network Authorization | X,R X,R |
| Qt NFC | X,R X,R |
| Qt Platform Headers | X,R X,R |
| Qt Positioning | X,R X,R |
| Qt Print Support | X,R X,R |
| Qt Purchasing | X,R X,R |
| Qt for Python | X,R X,R |
| Qt Quick Controls | X,R X,R |
| Qt Quick Extras | X,R X,R |
| Qt Quick Widgets | X,R X,R |
| Qt SCXML | X,R X,R |
| Qt Sensors | X,R X,R |
| Qt Serial Bus | X,R X,R |
| Qt Serial Port | X,R X,R |
| Qt Speech | X,R X,R |
| Qt SVG | X,R X,R |
| Qt UI Tools | X,R X,R |
| Qt WebChannel | X,R X,R |
| Qt WebEngine | X,R X,R |
| Qt WebSockets | X,R X,R |
| Qt WebView | X,R X,R |
| Qt Windows Extras | X,R X,R |
| Qt X11 Extras | X,R X,R |

| | |
|---------------------------------------|-----------|
| Qt XML | X,R X,R |
| Qt XML Patterns | X,R X,R |
| Qt Wayland Compositor | X,R X,R |
| Qt Charts | X,R X,R |
| Qt Data Visualization | X,R X,R |
| Qt Virtual Keyboard | X,R X,R |
| Boot 2 Qt stack | X,R |
| Qt OTA | X,R |
| Device Utilities | X,R |
| Qt Debugging Bridge (QDB) Daemon | X,R |
| Qt Quick Ultralite Controls | X,R |
| Qt Quick Ultralite | X,R |
| Qt Creator | X X X |
| Qt Designer (Qt Widget Designer) | X X |
| Qt Quick Designer (Qt Creator plugin) | X X X |
| Qt Linguist | X X X |
| Qt Assistant | X X X |
| lupdate | X X X |
| lrelease | X X X |
| qmake | X X |
| uic | X X |
| rcc | X X |
| qlalr | X X |
| qdoc | X X |

| | | | | | | | | |
|--------------------------------------|--|---|---|---|-----|--|---|--|
| qmlscene | | X | | X | | | | |
| qmlviewer | | X | | X | | | | |
| Target toolchains | | | X | | X | | | |
| Qt Debugging Bridge (QDB) Host Tools | | | X | | | | | |
| qtconfig-gui | | | X | | | | | |
| Qt Emulator | | | X | | | | | |
| qmlinterfacegenerator | | | | X | | | | |
| qmltocpp | | | | X | | | | |
| qulfontcompiler | | | | X | | | | |
| Qt53DStudioRuntime2 | | | | | X,R | | | |
| Qt 3D Studio | | | | | X | | | |
| Qt Design Studio | | | | | | | X | |

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

| | Add-On Product(s) | | | | | | |
|----------------------------|-------------------|----------|----------------------|------------|----------------|-------------|---------------|
| Modules / | Qt for Automation | Qt Suite | Qt Safe Automotive | Qt Manager | Qt Application | Qt Gammaray | Qt Deployment |
| Tools of Licensed Software | | | | | | | |
| Qt MQTT | | X,R | | | | | |

| | | | | | | | |
|--------------|-----|-----|-----|-----|--|---|---|
| Qt KNX | X,R | | | | | | |
| Qt OPC UA | X,R | | | | | | |
| Qt CoAP | X,R | | | | | | |
| Qt Safe | | X,R | X,R | | | | |
| Renderer | | | | | | | |
| Qt | | | | | | | |
| Application | | X,R | | X,R | | | |
| Manager | | | | | | | |
| Qt IVI | | X,R | | | | | |
| Reference UI | | X,R | | | | | |
| Qt GENIVI | | X,R | | | | | |
| Extras | | | | | | | |
| QML Live | | X | | | | | |
| Qt Creator | | X | | | | | |
| Deployment | | | | | | | |
| Qt Creator | | | | | | | |
| Plugin for | | | | | | | |
| Qt | | X | | X | | | |
| Application | | | | | | | |
| Manager | | | | | | | |
| Qt | | | | | | | |
| Automotive | | | | | | | |
| Suite | | X | | | | | |
| Deployment | | | | | | | |
| Server | | | | | | | |
| Qt Design | | X | | | | | |
| Studio | | | | | | | |
| Qt 3D Studio | | X | | | | | |
| GammaRay | | X | | | | X | |
| Platform | | | | | | | |
| adaptations | | | | | | | |
| for | | | | | | | X |

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|------------|--|--|--|--|--|--|--|--|--|
| specified | | | | | | | | | |
| Deployment | | | | | | | | | |
| Platforms | | | | | | | | | |

| | | | | | | | | | |
|----------|--|--|--|---|--|--|--|--|--|
| Qt for | | | | | | | | | |
| Device | | | | X | | | | | |
| Creation | | | | | | | | | |

All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

- (i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;
- (ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and
- (iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

- (a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement, unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry

date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that

- (b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

- I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

- II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only Designated Users may use the Licensed Software.

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^ expected errors | v input

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```
/*---
esid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/
```

void 0;

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spdx-license-ids

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

...

```
npm install spdx-license-ids
```

...

[Node.js](https://nodejs.org/) API

```
### require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
```

```
ids.includes('CC-BY-1.0'); //=> true
```

```
ids.includes('GPL-3.0'); //=> false
```

...

```
require('spdx-license-ids/deprecated')
```



Type: `string[]`

Deprecated license IDs.

```
````javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
````
```

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Version 3, 29 June 2007

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Re-implemented and improved read-write locks;  
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condition variables;  
enhancements to semaphores;  
enhancements to mutexes;  
new mutex implementation in 'futex' style;  
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Port to Digital Mars compiler.

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re-implemented pthread\_once (version 2)  
(pthread\_once cancellation added by rpj).

Vladimir Kliatchko vladimir at kliatchko dot com

reimplemented pthread\_once with the same form  
as described by A.Terekhov (later version 2);  
implementation of MCS (Mellor-Crummey/Scott) locks.

## A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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The code in this library is an extension of Bala Vatti's clipping algorithm:  
"A generic solution to polygon clipping"  
Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.  
<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences  
and Computers and Information in Engineering Conference (IDETC/CIE2005)

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<https://github.com/deanm/css-color-parser-js>

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node-http-proxy

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- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
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- \* Fixed detection of sched\_yield on Solaris.
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- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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\*

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\*

\* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

\* Date: Fri, Jun 24, 2011 at 3:20 AM

\* Subject: Re: sqrt routine

\* To: Kevin Ma <kma@google.com>

\* Hi Kevin,

\* Thanks for asking. Those routines are public domain (originally posted to  
\* comp.sys.arm a long time ago), so you can use them freely for any purpose.

\* Cheers,

\* Wilco

\*

\* ----- Original Message -----

\* From: "Kevin Ma" <kma@google.com>

\* To: <Wilco.Dijkstra@ntlworld.com>

\* Sent: Thursday, June 23, 2011 11:44 PM

\* Subject: Fwd: sqrt routine

\* Hi Wilco,

\* I saw your sqrt routine from several web sites, including

\* <http://www.finesse.demon.co.uk/steven/sqrt.html>.

\* Just wonder if there's any copyright information with your Successive  
\* approximation routines, or if I can freely use it for any purpose.

\* Thanks.

\* Kevin

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If you want to write an option parser, and have it be good, there are two ways to do it. The Right Way, and the Wrong Way.

The Wrong Way is to sit down and write an option parser. We've all done that.

The Right Way is to write some complex configurable program with so many options that you hit the limit of your frustration just trying to manage them all, and defer it with duct-tape solutions until you see exactly to the core of the problem, and finally snap and write an awesome option parser.

If you want to write an option parser, don't write an option parser. Write a package manager, or a source control system, or a service restarter, or an operating system. You probably won't end up with a good one of those, but if you don't give up, and you are relentless and diligent enough in your procrastination, you may just end up with a very nice option parser.

```
USAGE
```

```
```javascript
// my-program.js
var nopt = require("nopt")
  , Stream = require("stream").Stream
  , path = require("path")
  , knownOpts = { "foo" : [String, null]
    , "bar" : [Stream, Number]
    , "baz" : path
    , "bloo" : [ "big", "medium", "small" ]
    , "flag" : Boolean
    , "pick" : Boolean
    , "many1" : [String, Array]
    , "many2" : [path, Array]
    }
  , shortHands = { "foofoo" : ["--foo", "Mr. Foo"]
    , "b7" : ["--bar", "7"]
    , "m" : ["--bloo", "medium"]
    , "p" : ["--pick"]
    , "f" : ["--flag"]
    }
  // everything is optional.
  // knownOpts and shorthands default to {}
  // arg list defaults to process.argv
  // slice defaults to 2
  , parsed = nopt(knownOpts, shortHands, process.argv, 2)
console.log(parsed)
```
```

This would give you support for any of the following:

```
```console
$ node my-program.js --foo "blerp" --no-flag
{ "foo" : "blerp", "flag" : false }

$ node my-program.js ---bar 7 --foo "Mr. Hand" --flag
{ bar: 7, foo: "Mr. Hand", flag: true }

$ node my-program.js --foo "blerp" -f -----p
```



```

{ foo: "blerp", flag: true, pick: true }

$ node my-program.js -fp --foofoo
{ foo: "Mr. Foo", flag: true, pick: true }

$ node my-program.js --foofoo -- -fp # -- stops the flag parsing.
{ foo: "Mr. Foo", argv: { remain: ["-fp"] } }

$ node my-program.js --blatzk -fp # unknown opts are ok.
{ blatzk: true, flag: true, pick: true }

$ node my-program.js --blatzk=1000 -fp # but you need to use = if they have a value
{ blatzk: 1000, flag: true, pick: true }

$ node my-program.js --no-blatzk -fp # unless they start with "no-"
{ blatzk: false, flag: true, pick: true }

$ node my-program.js --baz b/a/z # known paths are resolved.
{ baz: "/Users/isaacs/b/a/z" }

# if Array is one of the types, then it can take many
# values, and will always be an array. The other types provided
# specify what types are allowed in the list.

$ node my-program.js --many1 5 --many1 null --many1 foo
{ many1: ["5", "null", "foo"] }

$ node my-program.js --many2 foo --many2 bar
{ many2: ["/path/to/foo", "path/to/bar"] }
...

```

Read the tests at the bottom of `lib/nopt.js`` for more examples of what this puppy can do.

Types

The following types are supported, and defined on `nopt.typeDefs``

- * `String`: A normal string. No parsing is done.
- * `path`: A file system path. Gets resolved against `cwd` if not absolute.
- * `url`: A url. If it doesn't parse, it isn't accepted.
- * `Number`: Must be numeric.
- * `Date`: Must parse as a date. If it does, and `Date`` is one of the options, then it will return a Date object, not a string.
- * `Boolean`: Must be either `true`` or `false``. If an option is a boolean, then it does not need a value, and its presence will imply `true`` as the value. To negate boolean flags, do `--no-whatever`` or `--whatever false``

- * NaN: Means that the option is strictly not allowed. Any value will fail.
- * Stream: An object matching the "Stream" class in node. Valuable for use when validating programmatically. (npm uses this to let you supply any WriteStream on the `outfd` and `logfd` config options.)
- * Array: If `Array` is specified as one of the types, then the value will be parsed as a list of options. This means that multiple values can be specified, and that the value will always be an array.

If a type is an array of values not on this list, then those are considered valid values. For instance, in the example above, the `--bloo` option can only be one of `"big"`, `"medium"`, or `"small"`, and any other value will be rejected.

When parsing unknown fields, `"true"`, `"false"`, and `"null"` will be interpreted as their JavaScript equivalents.

You can also mix types and values, or multiple types, in a list. For instance `{ blah: [Number, null] }` would allow a value to be set to either a Number or null. When types are ordered, this implies a preference, and the first type that can be used to properly interpret the value will be used.

To define a new type, add it to `nopt.typeDefs`. Each item in that hash is an object with a `type` member and a `validate` method. The `type` member is an object that matches what goes in the type list. The `validate` method is a function that gets called with `validate(data, key, val)`. Validate methods should assign `data[key]` to the valid value of `val` if it can be handled properly, or return boolean `false` if it cannot.

You can also call `nopt.clean(data, types, typeDefs)` to clean up a config object and remove its invalid properties.

Error Handling

By default, nopt outputs a warning to standard error when invalid values for known options are found. You can change this behavior by assigning a method to `nopt.invalidHandler`. This method will be called with the offending `nopt.invalidHandler(key, val, types)`.

If no `nopt.invalidHandler` is assigned, then it will console.error its whining. If it is assigned to boolean `false` then the warning is suppressed.

Abbreviations

Yes, they are supported. If you define options like this:

```
```javascript
{ "foolhardyelephants" : Boolean
, "pileofmonkeys" : Boolean }
```
```

Then this will work:

```
```bash
node program.js --foolhar --pil
node program.js --no-f --pileofmon
etc.
```
```

Shorthands

Shorthands are a hash of shorter option names to a snippet of args that they expand to.

If multiple one-character shorthands are all combined, and the combination does not unambiguously match any other option or shorthand, then they will be broken up into their constituent parts. For example:

```
```json
{ "s" : ["--loglevel", "silent"]
, "g" : "--global"
, "f" : "--force"
, "p" : "--parseable"
, "l" : "--long"
}
```
```

```
```bash
npm ls -sgflp
just like doing this:
npm ls --loglevel silent --global --force --long --parseable
```
```

The Rest of the args

The config object returned by nopt is given a special member called ``argv``, which is an object with the following fields:

- * ``remain``: The remaining args after all the parsing has occurred.
- * ``original``: The args as they originally appeared.
- * ``cooked``: The args after flags and shorthands are expanded.

Slicing

Node programs are called with more or less the exact argv as it appears in C land, after the v8 and node-specific options have been plucked off. As such, `argv[0]` is always `node` and `argv[1]` is always the JavaScript program being run.

That's usually not very useful to you. So they're sliced off by default. If you want them, then you can pass in `0` as the last argument, or any other number that you'd like to slice off the start of the list.

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- topographic model from Elevation model 2 m (U4421B, U4421D, U4422A and
U4422C) 08/2014

- map image extracted from Topographic map raster 1:50 000 (U442) 08/2014

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#####

BezierEasing - use bezier curve for transition easing function
by Gatan Renaudeau 2014 - 2015 MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp

Usage:

```
var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])
```

spline.get(x) => returns the easing value | x must be in [0, 1] range

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raytrace.js contains code from the the Prototype JavaScript framework, version 1.5.0:

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```
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```

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```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

```

Bind internal references

LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library
BIR_DEPS=

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup
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Author: Nicolas Roussel (nicolas.roussel@inria.fr)

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```
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```
#!/usr/bin/env node
var nopt = require("../lib/nopt")
, path = require("path")
, types = { num: Number
, bool: Boolean
, help: Boolean
, list: Array
, "num-list": [Number, Array]
, "str-list": [String, Array]
, "bool-list": [Boolean, Array]
, str: String
, clear: Boolean
, config: Boolean
, length: Number
, file: path
}
, shorthands = { s: [ "--str", "astring" ]
, b: [ "--bool" ]
```

```

    , nb: [ "--no-bool" ]
    , tft: [ "--bool-list", "--no-bool-list", "--bool-list", "true" ]
    , "?": ["--help"]
    , h: ["--help"]
    , H: ["--help"]
    , n: [ "--num", "125" ]
    , c: ["--config"]
    , l: ["--length"]
    , f: ["--file"]
  }
, parsed = nopt( types
  , shorthands
  , process.argv
  , 2 )

```

```
console.log("parsed", parsed)
```

```

if (parsed.help) {
  console.log("")
  console.log("nopt cli tester")
  console.log("")
  console.log("types")
  console.log(Object.keys(types).map(function M (t) {
    var type = types[t]
    if (Array.isArray(type)) {
      return [t, type.map(function (type) { return type.name })]
    }
    return [t, type && type.name]
  })).reduce(function (s, i) {
    s[i[0]] = i[1]
    return s
  }, {})
  console.log("")
  console.log("shorthands")
  console.log(shorthands)
}

```

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C++ Big Integer Library
(see ChangeLog for version)

<http://mattmccutchen.net/bigint/>

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides `BigUnsigned` and `BigInteger` classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a * a * a);

(print 340282366920938463463374607431768211456)
```

The code in ``sample.cc'` demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in ``sample.cc'`, consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (<http://swox.com/gmp/>), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library

The library consists of a folder full of C++ header files (`.hh'`) and source files (`.cc'`). Your own programs should ``#include'` the necessary header files and link with the source files. A makefile that builds the sample program

(`sample.cc`) is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources

The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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#

# Don't put empty lines into this file!

#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

```
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
```



src/tools/ftrandom/ftrandom.c

#

# EOF

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\$Id\$

// sigslot.h: Signal/Slot classes

//

// Written by Sarah Thompson (sarah@telergy.com) 2002.

//

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By: Adrian Heine

Repository: <https://github.com/adrianheine/acorn-import-meta>

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By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine

Repository: <https://github.com/acornjs/acorn.git>

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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language: node\_js

node\_js:

- '0.12'
- '4'
- '6'
- '7'

before\_install:

- npm install -g npm@latest

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
```

```
var valid = require('validate-npm-package-license');
```

```
```
```

SPDX license identifiers are valid license strings:

```
```javascript
```

```
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```
```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```
```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,

```

```

validForNewPackages: false,
spdx: true,
warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  "'UNLICENSED', or ' +
  "'SEE LICENSE IN <filename>",
]
};

```

```

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

```

```

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

```

```

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {

```



```
validForNewPackages: true,  
validForOldPackages: true,  
unlicensed: true  
};  
assert.deepEqual(valid('UNLICENSED'), unlicensed);  
assert.deepEqual(valid('UNLICENSED'), unlicensed);  
...  
Use, modification & distribution is subject to Boost Software License Ver 1.  
http://www.boost.org/LICENSE\_1\_0.txt
```

#### Attributions:

The code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences  
and Computers and Information in Engineering Conference (IDETC/CIE2005)  
September 24-28, 2005 , Long Beach, California, USA

<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPlusExpr.java,v 1.14 2006/11/30
18:49:26 elharo Exp $
 * $Revision: 1.14 $
 * $Date: 2006/11/30 18:49:26 $
 *
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultPlusExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultUnaryExpr.java,v 1.16 2006/11/30  
18:49:27 elharo Exp \$  
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 jar/org/jaxen/expr/DefaultUnaryExpr.java

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 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/PositionFunction.java,v 1.11  
 2006/02/05 21:47:41 elharo Exp \$  
 \* \$Revision: 1.11 \$  
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* $Id: PositionFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* $Header:
/home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java,v 1.18
2007/01/06 12:21:12 elharo Exp $
* $Revision: 1.18 $
* $Date: 2007/01/06 12:21:12 $
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* $Id: DefaultProcessingInstructionNodeStep.java,v 1.18 2007/01/06 12:21:12 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTextNodeStep.java,v 1.14

```

2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

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\* \$Id: DefaultFunctionCallExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp \$  
\*/

Found in path(s):

\*/opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultFunctionCallExpr.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LogicalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$

\* \$Revision: 1.6 \$  
\* \$Date: 2006/11/09 16:21:05 \$

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\*  
\* \$Id: LogicalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/LogicalExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathException.java,v 1.14  
2006/06/03 20:28:45 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/06/03 20:28:45 \$

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\* \$Id: SAXPathException.java,v 1.14 2006/06/03 20:28:45 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/SAXPathException.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LangFunction.java,v 1.13 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.13 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: LangFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$

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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/LangFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/07/16 11:07:25 \$

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\* \$Id: FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/FunctionCallException.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultFilterExpr.java,v 1.19 2006/11/30  
18:49:26 elharo Exp \$  
\* \$Revision: 1.19 \$  
\* \$Date: 2006/11/30 18:49:26 \$  
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 \* \$Id: DefaultFilterExpr.java,v 1.19 2006/11/30 18:49:26 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/DefaultFilterExpr.java

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\$Id: NamedAccessNavigator.java,v 1.4 2006/02/05 21:47:41 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/NamedAccessNavigator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2007/05/02 14:33:29 \$

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\* \$Id: SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/SelfAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NameFunction.java,v 1.11 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.11 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/NameFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/Navigator.java,v 1.30 2006/06/03 20:07:19  
elharo Exp \$

\* \$Revision: 1.30 \$

\* \$Date: 2006/06/03 20:07:19 \$

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* $Id: Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp $
*/

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Found in path(s):

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/Navigator.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp $

```

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* $Revision: 1.6 $

```

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* $Date: 2006/02/05 21:47:42 $

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* $Id: NodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/
```

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```
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NodeTest.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/BinaryExpr.java,v 1.8 2006/11/09
16:21:04 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/09 16:21:04 $
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* $Id: BinaryExpr.java,v 1.8 2006/11/09 16:21:04 elharo Exp $
*/
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\*  
\* \$Id: DefaultMinusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$  
\*/

Found in path(s):

\*/opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultMinusExpr.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DocumentNavigator.java,v 1.57 2007/05/05 18:08:55 elharo Exp \$

\* \$Revision: 1.57 \$

\* \$Date: 2007/05/05 18:08:55 \$

\*

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\*  
\* \$Id: DocumentNavigator.java,v 1.57 2007/05/05 18:08:55 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/dom/DocumentNavigator.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/AnyChildNodeTest.java,v 1.6  
2006/02/05 21:47:42 elharo Exp \$  
\* \$Revision: 1.6 \$  
\* \$Date: 2006/02/05 21:47:42 \$  
\*  
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\*

\* \$Id: AnyChildNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/AnyChildNodeTest.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathFactory.java,v 1.13 2007/05/02 14:32:38 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2007/05/02 14:32:38 \$

\*

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\*

\* \$Id: XPathFactory.java,v 1.13 2007/05/02 14:32:38 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/XPathFactory.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/StackedIterator.java,v 1.12 2006/02/05  
21:47:40 elharo Exp \$

\* \$Revision: 1.12 \$

\* \$Date: 2006/02/05 21:47:40 \$

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\*  
\* \$Id: StackedIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/StackedIterator.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LocationPath.java,v 1.9 2006/11/08  
17:02:21 elharo Exp \$  
\* \$Revision: 1.9 \$  
\* \$Date: 2006/11/08 17:02:21 \$  
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 \*  
 \* \$Id: LocationPath.java,v 1.9 2006/11/08 17:02:21 elharo Exp \$  
 \*/

Found in path(s):  
 \* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/LocationPath.java  
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/\*  
 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PredicateSet.java,v 1.23 2006/11/13  
 22:38:17 elharo Exp \$  
 \* \$Revision: 1.23 \$  
 \* \$Date: 2006/11/13 22:38:17 \$  
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\* \$Id: PredicateSet.java,v 1.23 2006/11/13 22:38:17 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/PredicateSet.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorAxis.java,v 1.7  
2006/06/03 20:50:12 elharo Exp \$  
\* \$Revision: 1.7 \$  
\* \$Date: 2006/06/03 20:50:12 \$

```
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* $Id: IterableAncestorAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableAncestorAxis.java
```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMultiplicativeExpr.java,v 1.9
2006/02/05 21:47:40 elharo Exp $
 * $Revision: 1.9 $
 * $Date: 2006/02/05 21:47:40 $
 *
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 * $Id: DefaultMultiplicativeExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
 */
```

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NumberFunction.java,v 1.18 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.18 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\*  
\* \$Id: NumberFunction.java,v 1.18 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\*/opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NumberFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnresolvableException.java,v 1.7 2006/06/03 20:21:05 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:21:05 \$

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*
* $Id: UnresolvableException.java,v 1.7 2006/06/03 20:21:05 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/UnresolvableException.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultArithExpr.java,v 1.10 2006/02/05
21:47:40 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:40 $
*
* =====
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\*

\* \$Id: DefaultArithExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultArithExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableParentAxis.java,v 1.7  
2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

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\* \$Id: IterableParentAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableParentAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringAfterFunction.java,v 1.11  
2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/02/05 21:47:41 \$

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* $Id: SubstringAfterFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/SubstringAfterFunction.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAllNodeStep.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
*
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\* \$Id: DefaultAllNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultAllNodeStep.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnionExpr.java,v 1.7 2006/11/08 15:57:20  
elharo Exp \$  
\* \$Revision: 1.7 \$  
\* \$Date: 2006/11/08 15:57:20 \$  
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* $Id: UnionExpr.java,v 1.7 2006/11/08 15:57:20 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAbsolutePath.java,v 1.18
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.18 $
* $Date: 2006/11/30 18:49:27 $
*
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*

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 \*  
 \* \$Id: DefaultAbsolutePath.java,v 1.18 2006/11/30 18:49:27 elharo Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultAbsolutePath.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathExpr.java,v 1.9 2006/06/03

20:52:26 elharo Exp \$

\* \$Revision: 1.9 \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-



jar/org/jaxen/expr/DefaultXPathExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/XPathLexer.java,v 1.17  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.17 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: XPathLexer.java,v 1.17 2006/02/05 21:47:42 elharo Exp \$  
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Found in path(s):

\*/opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/XPathLexer.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternParser.java,v 1.18 2006/02/05 21:47:42 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/EqualityExpr.java,v 1.6 2006/11/09  
16:21:05 elharo Exp \$

\* \$Revision: 1.6 \$

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2006/06/03 20:47:22 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PathExpr.java,v 1.9 2007/05/02 14:26:41  
elharo Exp \$

\* \$Revision: 1.9 \$

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\* \$Id: PathExpr.java,v 1.9 2007/05/02 14:26:41 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/PathExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/RelationalExpr.java,v 1.6 2006/11/09  
16:21:05 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/11/09 16:21:05 \$

\*

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\* \$Id: RelationalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$  
\*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/RelationalExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Predicate.java,v 1.14 2007/05/02 14:27:46  
elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2007/05/02 14:27:46 \$

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\* \$Id: Predicate.java,v 1.14 2007/05/02 14:27:46 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/Predicate.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathFactory.java,v 1.17  
2006/11/09 16:07:36 elharo Exp \$  
\* \$Revision: 1.17 \$  
\* \$Date: 2006/11/09 16:07:36 \$

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* $Id: DefaultXPathFactory.java,v 1.17 2006/11/09 16:07:36 elharo Exp $
*/

```

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultXPathFactory.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelativeLocationPath.java,v 1.13
2006/11/30 18:49:27 elharo Exp $

```

```

* $Revision: 1.13 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultRelativeLocationPath.java,v 1.13 2006/11/30 18:49:27 elharo Exp $
*/

```

Found in path(s):

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultRelativeLocationPath.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnaryExpr.java,v 1.7 2006/11/08 19:06:30  
elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/11/08 19:06:30 \$

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\* \$Id: UnaryExpr.java,v 1.7 2006/11/08 19:06:30 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/UnaryExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp \$

\* \$Revision: 1.10 \$

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\* \$Id: DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultTruthExpr.java

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/JaxenConstants.java

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/JaxenRuntimeException.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LocaleFunctionSupport.java,v 1.10  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.10 \$

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\* \$Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/namespaceTest.java,v 1.6 2006/02/05  
21:47:42 elharo Exp \$

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21:47:41 elharo Exp \$

\* \$Revision: 1.14 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/Pattern.java,v 1.13 2006/04/07 17:11:52  
elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/04/07 17:11:52 \$

\*

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\* \$Id: Pattern.java,v 1.13 2006/04/07 17:11:52 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/pattern/Pattern.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringFunction.java,v 1.33 2006/02/05  
 21:47:41 elharo Exp \$

\* \$Revision: 1.33 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: StringFunction.java,v 1.33 2006/02/05 21:47:41 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/09 18:20:12 \$

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*
* $Id: AncestorAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp $
*/

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Found in path(s):

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/AncestorAxisIterator.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathReader.java,v 1.6 2006/02/05

```

21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: XPathReader.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabean/JavaBeanXPath.java,v 1.6 2006/06/03 20:36:00 elharo Exp \$

\* \$Revision: 1.6 \$

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\* \$Id: JavaBeanXPath.java,v 1.6 2006/06/03 20:36:00 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/javabean/JavaBeanXPath.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/TextNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/pattern/TextNodeTest.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/TextNodeStep.java,v 1.6 2006/11/08  
18:52:02 elharo Exp \$

\* \$Revision: 1.6 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultOrExpr.java,v 1.17 2006/11/30  
18:49:26 elharo Exp \$  
\* \$Revision: 1.17 \$  
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 \*  
 \* \$Id: DefaultOrExpr.java,v 1.17 2006/11/30 18:49:26 elharo Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/DefaultOrExpr.java

No license file was found, but licenses were detected in source scan.

/\*  
 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NameTest.java,v 1.7 2006/02/05  
 21:47:42 elharo Exp \$  
 \* \$Revision: 1.7 \$  
 \* \$Date: 2006/02/05 21:47:42 \$  
 \*  
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```

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* $Id: NameTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NameTest.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLiteralExpr.java,v 1.13 2007/01/03

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20:47:42 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2007/01/03 20:47:42 \$

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\* \$Id: DefaultLiteralExpr.java,v 1.13 2007/01/03 20:47:42 elharo Exp \$

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jar/org/jaxen/expr/DefaultLiteralExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/CeilingFunction.java,v 1.11  
2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

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\* \$Revision: 1.8 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/ProcessingInstructionNodeStep.java,v 1.5  
2006/11/08 15:44:33 elharo Exp \$

\* \$Revision: 1.5 \$

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\* \$Revision: 1.8 \$

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18:49:26 elharo Exp \$

\* \$Revision: 1.13 \$

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1.7 2006/06/03 20:47:22 elharo Exp \$

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\* \$Id: DescendantAxisIterator.java,v 1.13 2006/11/09 18:20:11 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/DescendantAxisIterator.java

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/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java,v  
1.7 2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

\*  
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* $Id: IterableDescendantOrSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

```

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```

/*

```

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAndExpr.java,v 1.16 2006/11/30
18:49:27 elharo Exp $

```

```

* $Revision: 1.16 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultAndExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultAndExpr.java

```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/TextNode.java,v 1.25 2006/07/03
11:14:05 elharo Exp $
* $Revision: 1.25 $
* $Date: 2006/07/03 11:14:05 $
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*
* $Id: TextNode.java,v 1.25 2006/07/03 11:14:05 elharo Exp $
```

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/NamespaceNode.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterablePrecedingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

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\* \$Id: IterablePrecedingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterablePrecedingAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/IdFunction.java,v 1.13 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: IdFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/RoundFunction.java,v 1.12 2006/02/05  
21:47:41 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/TrueFunction.java,v 1.9 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.9 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultModExpr.java,v 1.15 2006/11/30  
18:49:26 elharo Exp \$

\* \$Revision: 1.15 \$

\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FunctionCallExpr.java,v 1.9 2006/11/08  
16:37:59 elharo Exp \$  
\* \$Revision: 1.9 \$  
\* \$Date: 2006/11/08 16:37:59 \$

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* $Id: FunctionCallExpr.java,v 1.9 2006/11/08 16:37:59 elharo Exp $
*/

```

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```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/FunctionCallExpr.java

```

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LastFunction.java,v 1.10 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: LastFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

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jar/org/jaxen/function/LastFunction.java

```

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/*

```

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultExpr.java,v 1.14 2006/02/05
21:47:40 elharo Exp $

```

```

* $Revision: 1.14 $

```

```

* $Date: 2006/02/05 21:47:40 $

```

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*
* $Id: DefaultExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultExpr.java

```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/XPathReader.java,v 1.32
2006/04/07 23:47:37 elharo Exp $
 * $Revision: 1.32 $
 * $Date: 2006/04/07 23:47:37 $
 *
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 * $Id: XPathReader.java,v 1.32 2006/04/07 23:47:37 elharo Exp $
 */
```

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/XPathReader.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/UnionPattern.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: UnionPattern.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/pattern/UnionPattern.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPredicate.java,v 1.13 2006/11/30  
18:49:27 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultPredicate.java,v 1.13 2006/11/30 18:49:27 elharo Exp \$  
\*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultPredicate.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleNamespaceContext.java,v 1.18  
2006/06/03 20:19:26 elharo Exp \$  
\* \$Revision: 1.18 \$  
\* \$Date: 2006/06/03 20:19:26 \$  
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\* \$Id: SimpleNamespaceContext.java,v 1.18 2006/06/03 20:19:26 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/SimpleNamespaceContext.java

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\* \$Id\$

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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/NodeComparator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleFunctionContext.java,v 1.14 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.14 \$

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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/SimpleFunctionContext.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathSyntaxException.java,v 1.12 2006/06/03  
20:26:36 elharo Exp \$  
\* \$Revision: 1.12 \$  
\* \$Date: 2006/06/03 20:26:36 \$  
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 \* \$Id: XPathSyntaxException.java,v 1.12 2006/06/03 20:26:36 elharo Exp \$  
 \*/

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 jar/org/jaxen/XPathSyntaxException.java

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 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.6 2006/11/08  
 15:41:05 elharo Exp \$  
 \* \$Revision: 1.6 \$  
 \* \$Date: 2006/11/08 15:41:05 \$  
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\* \$Id: AllNodeStep.java,v 1.6 2006/11/08 15:41:05 elharo Exp \$  
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jar/org/jaxen/expr/AllNodeStep.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringLengthFunction.java,v 1.12  
2006/02/05 21:47:41 elharo Exp \$  
\* \$Revision: 1.12 \$  
\* \$Date: 2006/02/05 21:47:41 \$  
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* $Id: StringLengthFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp $
*/

```

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```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/StringLengthFunction.java

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/*

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenException.java,v 1.17 2006/06/03
20:27:21 elharo Exp $

```

\* \$Revision: 1.17 \$  
\* \$Date: 2006/06/03 20:27:21 \$  
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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanEqualExpr.java,v 1.14
2006/11/30 18:49:26 elharo Exp $
 * $Revision: 1.14 $
 * $Date: 2006/11/30 18:49:26 $
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 * $Id: DefaultLessThanEqualExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp $
```

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultLessThanEqualExpr.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMultiplyExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultMultiplyExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultMultiplyExpr.java

No license file was found, but licenses were detected in source scan.

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NormalizeSpaceFunction.java,v 1.17  
2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.17 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: NormalizeSpaceFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/NormalizeSpaceFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EndsWithFunction.java,v 1.7  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: EndsWithFunction.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/ext/EndsWithFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/xslt/DocumentFunction.java,v 1.6  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: DocumentFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/xslt/DocumentFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DOMXPath.java,v 1.10 2006/06/03  
20:44:16 elharo Exp \$  
\* \$Revision: 1.10 \$  
\* \$Date: 2006/06/03 20:44:16 \$

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 \* \$Id: DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp \$  
 \*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/DOMXPath.java

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/\*  
 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/UpperFunction.java,v 1.11  
 2006/02/05 21:47:42 elharo Exp \$  
 \* \$Revision: 1.11 \$  
 \* \$Date: 2006/02/05 21:47:42 \$  
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* $Id: UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
*/

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Found in path(s):

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/UpperFunction.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorOrSelfAxisIterator.java,v 1.14
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/09 18:20:12 $
*
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 \* \$Id: AncestorOrSelfAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp \$  
 \*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/util/AncestorOrSelfAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnsupportedAxisException.java,v 1.11  
 2006/06/03 20:26:02 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/06/03 20:26:02 \$

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\* \$Id: UnsupportedAxisException.java,v 1.11 2006/06/03 20:26:02 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/UnsupportedAxisException.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Operator.java,v 1.5 2006/02/05
 21:47:42 elharo Exp $
 * $Revision: 1.5 $
 * $Date: 2006/02/05 21:47:42 $
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\* \$Id: Operator.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultNotEqualsExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

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jar/org/jaxen/expr/DefaultNotEqualsExpr.java

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\$Id: IterableAttributeAxis.java,v 1.9 2006/06/03 20:50:12 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FalseFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

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\*  
\* \$Id: FalseFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\*/opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/FalseFunction.java

No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenHandler.java,v 1.15 2006/03/30 13:53:11 elharo Exp \$

\* \$Revision: 1.15 \$  
\* \$Date: 2006/03/30 13:53:11 \$

\*  
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\* \$Id: JaxenHandler.java,v 1.15 2006/03/30 13:53:11 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/JaxenHandler.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16  
2006/11/13 22:10:09 elharo Exp \$

\* \$Revision: 1.16 \$

\* \$Date: 2006/11/13 22:10:09 \$

\*

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\* \$Id: PrecedingSiblingAxisIterator.java,v 1.16 2006/11/13 22:10:09 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/PrecedingSiblingAxisIterator.java

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\$Id: ContextSupport.java,v 1.13 2006/06/03 20:06:06 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/ContextSupport.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LiteralExpr.java,v 1.9 2006/11/08 16:47:30 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/11/08 16:47:30 \$

\*

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* $Id: LiteralExpr.java,v 1.9 2006/11/08 16:47:30 elharo Exp $
*/
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/LiteralExpr.java
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/*
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
```

```
* $Revision: 1.14 $
```

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* $Date: 2006/11/30 18:49:27 $
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\* \$Id: DefaultGreaterThanExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultGreaterThanExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java,v 1.7  
2006/06/03 20:50:12 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:50:12 \$

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\* \$Id: IterableAncestorOrSelfAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp \$

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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultBinaryExpr.java,v 1.10 2007/01/05  
18:25:43 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2007/01/05 18:25:43 \$

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\* \$Id: DefaultBinaryExpr.java,v 1.10 2007/01/05 18:25:43 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultBinaryExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NotFunction.java,v 1.9 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.9 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$  
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Found in path(s):  
\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/NotFunction.java  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathEventSource.java,v 1.5  
2006/02/05 21:47:42 elharo Exp \$  
\* \$Revision: 1.5 \$  
\* \$Date: 2006/02/05 21:47:42 \$  
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* $Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
*/

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Found in path(s):

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/SAXPathEventSource.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingAxisIterator.java,v 1.8
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/09 18:20:12 $
*
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* $Id: FollowingAxisIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $
*/
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Found in path(s):

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/FollowingAxisIterator.java
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/*
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Axis.java,v 1.8 2006/03/30 13:56:36  
elharo Exp \$  
\* \$Revision: 1.8 \$  
\* \$Date: 2006/03/30 13:56:36 \$  
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\*  
\* \$Id: Axis.java,v 1.8 2006/03/30 13:56:36 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/Axis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Expr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Id: Expr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/Expr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.5 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$  
\*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/base/Token.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NumberExpr.java,v 1.8 2006/11/08  
17:17:32 elharo Exp \$  
\* \$Revision: 1.8 \$  
\* \$Date: 2006/11/08 17:17:32 \$  
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\* \$Id: NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/NumberExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java,v  
1.7 2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

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\* \$Id: IterableFollowingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathExpr.java,v 1.9 2007/05/02 15:04:46  
elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2007/05/02 15:04:46 \$

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\* \$Id: XPathExpr.java,v 1.9 2007/05/02 15:04:46 elharo Exp \$  
\*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/XPathExpr.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultStep.java,v 1.21 2006/02/05  
21:47:40 elharo Exp \$  
\* \$Revision: 1.21 \$  
\* \$Date: 2006/02/05 21:47:40 \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultStep.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingleObjectIterator.java,v 1.8 2006/11/09  
18:20:12 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/11/09 18:20:12 \$

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 \* \$Id: SingleObjectIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$  
 \*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/util/SingleObjectIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanEqualExpr.java,v 1.14  
 2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

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* $Id: DefaultGreaterThanEqualExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
*/
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java
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/*
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/QualifiedName.java,v 1.12 2006/06/01  
13:19:30 elharo Exp \$  
\* \$Revision: 1.12 \$  
\* \$Date: 2006/06/01 13:19:30 \$  
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\* \$Id: QualifiedName.java,v 1.12 2006/06/01 13:19:30 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/QualifiedName.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultUnionExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.17 \$

\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultUnionExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp \$  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPathExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp \$

\* \$Revision: 1.16 \$

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*
* $Id: DefaultPathExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultPathExpr.java
```

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```
/*
$Id$
```

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```
*/
```

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/IdentitySet.java

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/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

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\* \$Id: IterableSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableSelfAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringBeforeFunction.java,v 1.10  
2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$  
\*/

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jar/org/jaxen/function/SubstringBeforeFunction.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingletonList.java,v 1.4 2006/11/09  
16:39:19 elharo Exp \$  
\* \$Revision: 1.4 \$  
\* \$Date: 2006/11/09 16:39:19 \$  
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\* \$Id: SingletonList.java,v 1.4 2006/11/09 16:39:19 elharo Exp \$

\*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/SingletonList.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ConcatFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: ConcatFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/ConcatFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/TokenTypes.java,v 1.12  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.12 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: TokenType.java,v 1.12 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/base/TokenType.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/LinkedListIterator.java,v 1.8 2006/11/09  
18:20:12 elharo Exp \$  
\* \$Revision: 1.8 \$  
\* \$Date: 2006/11/09 18:20:12 \$

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\* \$Id: LinkedIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/LinkedIterator.java  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Step.java,v 1.13 2006/12/10 15:32:14  
elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/Step.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ContainsFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.10 \$

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 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/DefaultXPathHandler.java,v 1.7  
 2006/02/05 21:47:42 elharo Exp \$  
 \* \$Revision: 1.7 \$  
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 \* \$Id: DefaultXPathHandler.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java

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\$Id: DefaultNameStep.java,v 1.53 2007/04/17 01:26:35 bewins Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp \$

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*
* $Id: DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLocationPath.java

```

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```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingSiblingAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/11/09 18:20:12 $
*
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```

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*
* $Id: FollowingSiblingAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/FollowingSiblingAxisIterator.java

```

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NoNodeTest.java,v 1.7 2006/02/05

```



21:47:42 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: NoNodeTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/pattern/NoNodeTest.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingAxis.java,v 1.7  
2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

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\* \$Id: IterableFollowingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableFollowingAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2006/06/03 20:29:30 \$

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\* \$Id: XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/XPathSyntaxException.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SumFunction.java,v 1.11 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: SumFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleVariableContext.java,v 1.19 2006/06/03  
20:19:54 elharo Exp \$

\* \$Revision: 1.19 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultNumberExpr.java,v 1.13  
2006/11/30 18:49:26 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Id: DefaultNumberExpr.java,v 1.13 2006/11/30 18:49:26 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultNumberExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/namespacecontext.java,v 1.10 2006/07/03  
11:58:06 elharo Exp \$  
\* \$Revision: 1.10 \$  
\* \$Date: 2006/07/03 11:58:06 \$  
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\* \$Id: NamespaceContext.java,v 1.10 2006/07/03 11:58:06 elharo Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/NamespaceContext.java  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionContext.java,v 1.10 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.10 \$  
\* \$Date: 2006/02/05 21:47:41 \$  
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* $Id: FunctionContext.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/FunctionContext.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/DefaultNavigator.java,v 1.19 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.19 $
* $Date: 2006/02/05 21:47:41 $
*
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 \*  
 \* \$Id: DefaultNavigator.java,v 1.19 2006/02/05 21:47:41 elharo Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/DefaultNavigator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultDivExpr.java,v 1.14 2006/11/30  
 18:49:27 elharo Exp \$

```

* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
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*
* $Id: DefaultDivExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultDivExpr.java

```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanExpr.java,v 1.15
2006/11/30 18:49:27 elharo Exp $
 * $Revision: 1.15 $
 * $Date: 2006/11/30 18:49:27 $
 *
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 *
 * $Id: DefaultLessThanExpr.java,v 1.15 2006/11/30 18:49:27 elharo Exp $
```

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultLessThanExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathFunctionContext.java,v 1.29 2006/11/08 13:59:38 elharo Exp \$

\* \$Revision: 1.29 \$

\* \$Date: 2006/11/08 13:59:38 \$

\*

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\* \$Id: XPathFunctionContext.java,v 1.29 2006/11/08 13:59:38 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/XPathFunctionContext.java

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/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/VariableReferenceExpr.java,v 1.8  
2006/11/08 19:20:29 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/11/08 19:20:29 \$

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\* \$Id: VariableReferenceExpr.java,v 1.8 2006/11/08 19:20:29 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/VariableReferenceExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EvaluateFunction.java,v 1.10  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: EvaluateFunction.java,v 1.10 2006/02/05 21:47:42 elharo Exp \$  
\*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/ext/EvaluateFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FloorFunction.java,v 1.11 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.11 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: FloorFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/FloorFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultCommentNodeStep.java,v 1.14  
2006/11/30 18:49:27 elharo Exp \$  
\* \$Revision: 1.14 \$  
\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultCommentNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultCommentNodeStep.java  
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\$Id: XPath.java,v 1.13 2007/05/02 15:00:13 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$

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\* \$Id: NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$  
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2006/02/05 21:47:41 elharo Exp \$  
\* \$Revision: 1.17 \$  
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jar/org/jaxen/function/BooleanFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultVariableReferenceExpr.java,v 1.16  
2006/11/30 18:49:26 elharo Exp \$  
\* \$Revision: 1.16 \$  
\* \$Date: 2006/11/30 18:49:26 \$

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*
* $Id: DefaultVariableReferenceExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp $
*/

```

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```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultVariableReferenceExpr.java

```

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```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NameStep.java,v 1.5 2006/11/08 17:10:02
elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/11/08 17:10:02 $
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* $Id: NameStep.java,v 1.5 2006/11/08 17:10:02 elharo Exp $
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jar/org/jaxen/expr/NameStep.java

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/*

```

```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingAxisIterator.java,v 1.11
2006/11/13 22:10:09 elharo Exp $

```

```

* $Revision: 1.11 $

```

```

* $Date: 2006/11/13 22:10:09 $

```

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\* \$Id: PrecedingAxisIterator.java,v 1.11 2006/11/13 22:10:09 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/PrecedingAxisIterator.java



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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelationalExpr.java,v 1.14
2006/02/05 21:47:40 elharo Exp $
 * $Revision: 1.14 $
 * $Date: 2006/02/05 21:47:40 $
 *
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 *
 * $Id: DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
```

\*/

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultRelationalExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathHandler.java,v 1.9 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: XPathHandler.java,v 1.9 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/XPathHandler.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LowerFunction.java,v 1.11  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: LowerFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/ext/LowerFunction.java

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\$Id: Context.java,v 1.20 2006/10/15 21:08:16 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringFunction.java,v 1.16 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.16 \$

\* \$Date: 2006/02/05 21:47:41 \$

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jar/org/jaxen/function/SubstringFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/XPathReaderFactory.java,v 1.9  
2006/09/15 20:41:38 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/09/15 20:41:38 \$

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jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableDescendantAxis.java,v 1.7  
2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

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\* \$Id: IterableDescendantAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultEqualityExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/CommentNodeStep.java,v 1.6 2006/11/08  
15:42:39 elharo Exp \$  
\* \$Revision: 1.6 \$  
\* \$Date: 2006/11/08 15:42:39 \$  
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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/LocationPathPattern.java,v 1.15  
2006/02/05 21:47:42 elharo Exp \$  
\* \$Revision: 1.15 \$  
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* $Id: LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp $
*/

```

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/LocationPathPattern.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:42 $
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*
* $Id: PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/PatternHandler.java

```

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```

/*

```

```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/VariableContext.java,v 1.11 2006/07/03
11:58:31 elharo Exp $

```

```

* $Revision: 1.11 $
* $Date: 2006/07/03 11:58:31 $
*
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*
* $Id: VariableContext.java,v 1.11 2006/07/03 11:58:31 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/VariableContext.java

```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/DescendantOrSelfAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp $
 * $Revision: 1.11 $
 * $Date: 2006/11/09 18:20:12 $
 *
 * =====
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```

\* \$Id: DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/Verifier.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/MultiplicativeExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/11/09 16:21:05 \$

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\* /opt/cola/permits/1018361815\_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/MultiplicativeExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/BaseXPath.java,v 1.50 2007/04/16 15:44:37  
elharo Exp \$

\* \$Revision: 1.50 \$

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jar/org/jaxen/BaseXPath.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FilterExpr.java,v 1.10 2006/11/08  
16:28:04 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StartsWithFunction.java,v 1.11  
2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

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\* \$Id: StartsWithFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$  
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2006/02/05 21:47:41 elharo Exp \$  
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 \* \$Id: TranslateFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$  
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```
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* /opt/ws_local/PERMITS_SQL/1033269250_1591844830.97/0/annotations-19-0-0-sources-jar/org/jetbrains/annotations/NotNull.java
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\* /opt/ws\_local/PERMITS\_SQL/1033269250\_1591844830.97/0/annotations-19-0-0-sources-jar/org/jetbrains/annotations/Unmodifiable.java

## 1.124 jaxb-jxc 2.3.2

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## Source Code

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\* <https://github.com/eclipse-ee4j/metro-xmlstreambuffer>

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\* Project:

<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

\* Source:

<https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

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\* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

\* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

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testng (6.14.2)

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- \* Project: <https://testng.org/doc/index.html>
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woodstox-core-asl (4.4.1)

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ws-addr.wsd (1.0)

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## 1.128 commons-codec 1.4

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# 1.132 trove4j 3.1a1

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jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
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jar/org/apache/commons/logging/impl/SimpleLog.java
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jar/org/apache/commons/logging/impl/Jdk14Logger.java
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jar/org/apache/commons/logging/impl/NoOpLog.java
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Found in path(s):

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

## 1.140 tomcat-api 9.0.58

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## 1.141 fast-infosec 1.2.7

## 1.142 jetty 9.4.28.v20200408

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

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\* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library,

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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# 1.144 netty-codec 4.1.50.Final

## 1.144.1 Available under license :

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/DefaultHeaders.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/Headers.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/EmptyHeaders.java

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- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolvers.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CorruptedFrameException.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ByteToMessageDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/JZlibEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageToMessageDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DecoderException.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/ZlibUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageAggregator.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ReplayingDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/bytes/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/ZlibWrapper.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/ZlibDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/xml/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/PrematureChannelClosureException.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-

jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/EncoderException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ObjectEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
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jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/base64/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/package-info.java  
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jar/io/netty/handler/codec/compression/JZlibDecoder.java  
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jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/string/StringEncoder.java  
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jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
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jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-

jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/LengthFieldPrepender.java  
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jar/io/netty/handler/codec/Delimiters.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
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jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ReferenceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
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jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
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jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
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jar/io/netty/handler/codec/MessageToMessageCodec.java  
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jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
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jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
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jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
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jar/io/netty/handler/codec/base64/Base64Decoder.java  
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jar/io/netty/handler/codec/compression/ZlibEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-

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jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
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jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
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jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Rand.java



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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DecoderResultProvider.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
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*/
/**
* Utility class for { @link ByteBuf } that encodes and decodes to and from
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* <p>
* The encoding and decoding algorithm in this class has been derived from
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* Base64 Encoder/Decoder</a>.
*/
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jar/io/netty/handler/codec/CharSequenceValueConverter.java
*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DatagramPacketDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/ByteBufChecksum.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

```
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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```

```
*/
```

```
/**
```

```
* A decoder that splits the received { @link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
```

```
* <p>
```

```
* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
```

```
*
```

```
* <h3>2 bytes length field at offset 0, do not strip header</h3>
```

```
*
```

```
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
```

```
* <pre>
```

```
* <b>lengthFieldOffset</b> = <b>0</b>
```

```
* <b>lengthFieldLength</b> = <b>2</b>
```

```
* lengthAdjustment = 0
```

```
* initialBytesToStrip = 0 (= do not strip header)
```

```
*
```

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
```

```
* +-----+-----+      +-----+-----+
```

```
* | Length | Actual Content |-----| Length | Actual Content |
```

```

* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* { @link ByteBuf#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

```

```

*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>

```

```

* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x00C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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*/
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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* Base64 Encoder/Decoder</a>.
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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```

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# 1.147 guava 11.0.2

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jar/org/directwebremoting/spring/AbstractConfig.java
* /opt/cola/permits/1149086799_1620942413.86/0/dwr-2-0-2-sources-1-
jar/org/directwebremoting/spring/SpringConfigurator.java
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\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/servlet/AboutHandler.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/impl/DwrXmlConfigurator.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/create/ScriptedCreator.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/extend/CreatorManager.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/dwrp/BasicAlarm.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/proxy/ScriptProxy.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/util/DelegatingServletOutputStream.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/util/MimeConstants.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/extend/DebugPageGenerator.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/dwrp/ParseUtil.java

\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/impl/ContainerUtil.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/servlet/EngineHandler.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/impl/SignatureParser.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/dwrp/Batch.java  
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\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/extend/RealScriptSession.java  
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\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/servlet/HtmlCallHandler.java  
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\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/impl/DefaultPageNormalizer.java  
\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/struts/StrutsCreator.java  
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\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/impl/DefaultServerLoadMonitor.java

\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/servlet/DwrWebContextFilter.java

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Found in path(s):

\* /opt/cola/permits/1149086799\_1620942413.86/0/dwr-2-0-2-sources-1-jar/org/directwebremoting/auth.js

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```

Found in path(s):

```
*/opt/cola/permits/1149086799_1620942413.86/0/dwr-2-0-2-sources-1-
jar/org/directwebremoting/webwork/DWRActionUtil.js
```

## 1.149 commons-digester 1.7

### 1.149.1 Available under license :

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```
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```

Found in path(s):

```
*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/Declaration.java
```

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```
/* $Id: FinderFromDfltResource.java 179714 2005-06-03 03:53:39Z skitching $
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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java  
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/\* \$Id: VariableAttributes.java 179714 2005-06-03 03:53:39Z skitching \$

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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/substitution/VariableAttributes.java  
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/\* \$Id: Rule.java 179716 2005-06-03 04:06:00Z skitching \$

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Found in path(s):

\*/opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/Rule.java

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\*/opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/ExtendedBaseRules.java

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/\* \$Id: PluginInvalidInputException.java 155412 2005-02-26 12:58:36Z dirkv \$

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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-

jar/org/apache/commons/digester/plugins/PluginInvalidInputException.java

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```
/* $Id: Substitutor.java 155412 2005-02-26 12:58:36Z dirkv $
```

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Found in path(s):

```
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
```

```
jar/org/apache/commons/digester/Substitutor.java
```

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```
/* $Id: FinderFromDfltClass.java 155412 2005-02-26 12:58:36Z dirkv $
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* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
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```
jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java
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```
/* $Id: PluginContext.java 179714 2005-06-03 03:53:39Z skitching $
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```

Found in path(s):

```
*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/PluginContext.java
```

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```
/* $Id: ObjectCreationFactory.java 155412 2005-02-26 12:58:36Z dirkv $
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Found in path(s):

```
*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/ObjectCreationFactory.java
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/* $Id: FinderFromFile.java 155412 2005-02-26 12:58:36Z dirkv $
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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromFile.java  
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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/AbstractObjectCreationFactory.java  
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/* $Id: XmlLoadException.java 155412 2005-02-26 12:58:36Z dirkv $  
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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
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jar/org/apache/commons/digester/RegexRules.java  
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\*/opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/SimpleRegexMatcher.java

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```
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jar/org/apache/commons/digester/ObjectCreateRule.java
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* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/LogUtils.java
```

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```
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jar/org/apache/commons/digester/CallMethodRule.java
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jar/org/apache/commons/digester/plugins/InitializableRule.java  
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jar/org/apache/commons/digester/PathCallParamRule.java  
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jar/org/apache/commons/digester/plugins/PluginManager.java  
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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/plugins/strategies/FinderFromMethod.java  
No license file was found, but licenses were detected in source scan.

/\* \$Id: CallParamRule.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/CallParamRule.java

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/\* \$Id: FromXmlRuleSet.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/xmlrules/FromXmlRuleSet.java

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/\* \$Id: LoaderSetProperties.java 179714 2005-06-03 03:53:39Z skitching \$

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/\* \$Id: PluginAssertionFailure.java 155412 2005-02-26 12:58:36Z dirkv \$

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```
/* $Id: ParserFeatureSetterFactory.java 179714 2005-06-03 03:53:39Z skitching $
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```
/* $Id: SetNextRule.java 157820 2005-03-16 22:46:19Z skitching $
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/\* \$Id: LoaderFromStream.java 155412 2005-02-26 12:58:36Z dirkv \$

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/\* \$Id: FactoryCreateRule.java 179716 2005-06-03 04:06:00Z skitching \$

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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-  
jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java  
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/\* \$Id: ObjectParamRule.java 178355 2005-05-25 03:58:11Z skitching \$

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jar/org/apache/commons/digester/ObjectParamRule.java  
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/\* \$Id: RuleFinder.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/plugins/RuleFinder.java

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/\* \$Id: BeanPropertySetterRule.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/BeanPropertySetterRule.java

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/\* \$Id: XercesParser.java 155412 2005-02-26 12:58:36Z dirkv \$

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/* $Id: VariableSubstitutor.java 155412 2005-02-26 12:58:36Z dirkv $
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```
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/* $Id: AbstractRulesImpl.java 155412 2005-02-26 12:58:36Z dirkv $
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jar/org/apache/commons/digester/AbstractRulesImpl.java
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jar/org/apache/commons/digester/RuleSet.java
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```
/* $Id: PluginDeclarationRule.java 179714 2005-06-03 03:53:39Z skitching $
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```



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jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java  
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jar/org/apache/commons/digester/plugins/PluginRules.java  
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/\* \$Id: RuleSetBase.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/RuleSetBase.java

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jar/org/apache/commons/digester/plugins/strategies/FinderSetProperties.java  
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/\* \$Id: CircularIncludeException.java 155412 2005-02-26 12:58:36Z dirkv \$

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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/package.html  
\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/xmlrules/package.html  
\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/overview.html  
\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/package.html  
\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/parser/package.html  
\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/package.html  
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/\* \$Id: FinderFromResource.java 155412 2005-02-26 12:58:36Z dirkv \$

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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromResource.java

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/\* \$Id: DigesterRulesSource.java 155412 2005-02-26 12:58:36Z dirkv \$

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jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java  
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```
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jar/org/apache/commons/digester/SetRootRule.java  
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```
/* $Id: RegexMatcher.java 155412 2005-02-26 12:58:36Z dirkv $
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```
/* $Id: PluginConfigurationException.java 155412 2005-02-26 12:58:36Z dirkv $
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```

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```
/* $Id: MultiVariableExpander.java 155412 2005-02-26 12:58:36Z dirkv $
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```

Found in path(s):

```
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/substitution/MultiVariableExpander.java
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```

```
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```

Found in path(s):

```
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/PluginException.java
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```

```
/* $Id: Digester.java 178371 2005-05-25 05:13:27Z skitching $
*
```



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jar/org/apache/commons/digester/Digester.java

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jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java

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Found in path(s):

\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/xmlrules/digester-rules.dtd

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/\* \$Id: FinderFromDfltMethod.java 179714 2005-06-03 03:53:39Z skitching \$

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jar/org/apache/commons/digester/SetTopRule.java

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\* /opt/cola/permits/1135953136\_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/parser/GenericParser.java

## 1.150 easymock 2.2

## 1.151 jackson-annotations 2.9.8

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## 1.152 compiler 2.4.0

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```
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AAC", "sourcesContent": ["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this
source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\nimport { ChangeDetectionStrategy, SchemaMetadata, Type, ViewEncapsulation }
from '@angular/core';\n\nimport { StaticSymbol } from './aot/static_symbol';\nimport { ListWrapper } from
'./facade/collection';\nimport { isPresent, stringify } from './facade/lang';\nimport { LifecycleHooks, reflector } from
'./private_import_core';\nimport { CssSelector } from './selector';\nimport { splitAtColon } from './util';\n/**\n *
@return {?} \n *\nfunction unimplemented(): any {\n throw new Error('unimplemented');\n}\n\n// group 0: \"[prop]
or (event) or @trigger\"\n// group 1: \"prop\" from \"[prop]\"\n// group 2: \"event\" from \"(event)\"\n// group 3:
\"@trigger\" from \"@trigger\"\nconst /** @type {?} */ HOST_REG_EXP =
/^(?:(?:\\[[^\\]]+\\])|(?:\\((?:\\[[^\\]]+\\])|\\)|\\@\\[-\\w]+\\)$);\n\nexport class CompileAnimationEntryMetadata {\n/**\n *
@param {?} = name\n * @param {?} = definitions\n *\nconstructor(\npublic name: string = null,\npublic
definitions: CompileAnimationStateMetadata[] = null) {\n}\n\nfunction
CompileAnimationEntryMetadata_tsickle_Closure_declarations() {\n /** @type {?}
*\n\nCompileAnimationEntryMetadata.prototype.name;\n /** @type {?}
*\n\nCompileAnimationEntryMetadata.prototype.definitions;\n}\n\n/**\n * @abstract\n *\nexport abstract class
CompileAnimationStateMetadata {\n}\n\nexport class CompileAnimationStateDeclarationMetadata extends
CompileAnimationStateMetadata {\n/**\n * @param {?} stateNameExpr\n * @param {?} styles\n
*\nconstructor(public stateNameExpr: string,\npublic styles: CompileAnimationStyleMetadata) {\n super();\n
}\n}\n\nfunction CompileAnimationStateDeclarationMetadata_tsickle_Closure_declarations() {\n /** @type {?}
*\n\nCompileAnimationStateDeclarationMetadata.prototype.stateNameExpr;\n /** @type {?}
*\n\nCompileAnimationStateDeclarationMetadata.prototype.styles;\n}\n\n\nexport class
CompileAnimationStateTransitionMetadata extends CompileAnimationStateMetadata {\n/**\n * @param {?}
stateChangeExpr\n * @param {?} steps\n *\nconstructor(public stateChangeExpr: string,\npublic steps:
CompileAnimationMetadata) {\n super();\n}\n}\n\nfunction
CompileAnimationStateTransitionMetadata_tsickle_Closure_declarations() {\n /** @type {?}
*\n\nCompileAnimationStateTransitionMetadata.prototype.stateChangeExpr;\n /** @type {?}
*\n\nCompileAnimationStateTransitionMetadata.prototype.steps;\n}\n\n/**\n * @abstract\n *\nexport abstract class
CompileAnimationMetadata {\n}\n\nexport class CompileAnimationKeyframesSequenceMetadata extends
CompileAnimationMetadata {\n/**\n * @param {?} = steps\n *\nconstructor(public steps:
CompileAnimationStyleMetadata[] = []) {\n super();\n}\n}\n\nfunction

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CompileAnimationKeyframesSequenceMetadata_tsickle_Closure_declarations() {\n /** @type {?}
*\nCompileAnimationKeyframesSequenceMetadata.prototype.steps;\n}\n\n\nexport class
CompileAnimationStyleMetadata extends CompileAnimationMetadata {\n/**\n * @param {?} offset\n * @param
{?=} styles\n *\nconstructor(\npublic offset: number,\npublic styles: Array<string|{[key: string]: string | number}>
= null) {\n  super();\n }\n}\n\nfunction CompileAnimationStyleMetadata_tsickle_Closure_declarations() {\n /**
@type {?} *\nCompileAnimationStyleMetadata.prototype.offset;\n /** @type {?}
*\nCompileAnimationStyleMetadata.prototype.styles;\n}\n}\n\n\nexport class CompileAnimationAnimateMetadata
extends CompileAnimationMetadata {\n/**\n * @param {?} timings\n * @param {?} styles\n
*\nconstructor(\npublic timings: string|number = 0,\npublic styles: CompileAnimationStyleMetadata|\n
CompileAnimationKeyframesSequenceMetadata = null) {\n  super();\n }\n}\n\n\nfunction
CompileAnimationAnimateMetadata_tsickle_Closure_declarations() {\n /** @type {?}
*\nCompileAnimationAnimateMetadata.prototype.timings;\n /** @type {?}
*\nCompileAnimationAnimateMetadata.prototype.styles;\n}\n}\n\n\nexport abstract class
CompileAnimationWithStepsMetadata extends CompileAnimationMetadata {\n/**\n * @param {?} steps\n
*\nconstructor(public steps: CompileAnimationMetadata[] = null) { super(); }\n}\n\n\nfunction
CompileAnimationWithStepsMetadata_tsickle_Closure_declarations() {\n /** @type {?}
*\nCompileAnimationWithStepsMetadata.prototype.steps;\n}\n}\n\n\nexport class
CompileAnimationSequenceMetadata extends CompileAnimationWithStepsMetadata {\n/**\n * @param {?}
steps\n *\nconstructor(steps: CompileAnimationMetadata[] = null) { super(steps); }\n}\n\n\nexport class
CompileAnimationGroupMetadata extends CompileAnimationWithStepsMetadata {\n/**\n * @param {?} steps\n
*\nconstructor(steps: CompileAnimationMetadata[] = null) { super(steps); }\n}\n\n\n/**\n * @param {?} name\n *
@return {?} */\nfunction _sanitizeIdentifier(name: string): string {\n  return name.replace(/\\W/g, '_');\n}\n\n\nlet
/** @type {?} */ _anonymousTypeIndex = 0;\n/**\n * @param {?} compileIdentifier\n * @return {?} */\n\nexport
function identifierName(compileIdentifier: CompileIdentifierMetadata): string {\n  if (!compileIdentifier ||
!compileIdentifier.reference) {\n    return null;\n  }\n  const /** @type {?} */ ref = compileIdentifier.reference;\n  if
(ref instanceof StaticSymbol) {\n    return ref.name;\n  }\n  if (ref['__anonymousType']) {\n    return
ref['__anonymousType'];\n  }\n  let /** @type {?} */ identifier = stringify(ref);\n  if (identifier.indexOf('(') >= 0) {\n
// case: anonymous functions!\n    identifier = `anonymous_${_anonymousTypeIndex++}`;\n  }\n  ref['__anonymousType'] = identifier;\n } else {\n  identifier = _sanitizeIdentifier(identifier);\n }\n  return
identifier;\n}\n}\n\n\n/**\n * @param {?} compileIdentifier\n * @return {?} */\n\nexport function
identifierModuleUrl(compileIdentifier: CompileIdentifierMetadata): string {\n  const /** @type {?} */ ref =
compileIdentifier.reference;\n  if (ref instanceof StaticSymbol) {\n    return ref.filePath;\n  }\n  return
reflector.importUri(ref);\n}\n}\n\n\nexport interface CompileIdentifierMetadata { reference: any; }\n\nexport type
CompileSummaryKind = number;\n\nexport let CompileSummaryKind: any = {\n  CompileSummaryKind.Pipe =
0;\n  CompileSummaryKind.Directive = 1;\n  CompileSummaryKind.NgModule =
2;\n  CompileSummaryKind.Injectable = 3;\n  CompileSummaryKind[CompileSummaryKind.Pipe] =
'Pipe';\n  CompileSummaryKind[CompileSummaryKind.Directive] =
'Directive';\n  CompileSummaryKind[CompileSummaryKind.NgModule] =
'NgModule';\n  CompileSummaryKind[CompileSummaryKind.Injectable] = 'Injectable';\n}\n\n\n/**\n * A
CompileSummary is the data needed to use a directive / pipe / module\n * in other modules / components. However,
this data is not enough to compile\n * the directive / module itself.\n *\nexport interface CompileTypeSummary {\n
summaryKind: CompileSummaryKind;\n type: CompileTypeMetadata;\n}\n\n\nexport interface
CompileDiDependencyMetadata {\n  isAttribute?: boolean;\n  isSelf?: boolean;\n  isHost?: boolean;\n  isSkipSelf?:
boolean;\n  isOptional?: boolean;\n  isValue?: boolean;\n  token?: CompileTokenMetadata;\n  value?:
any;\n}\n\n\nexport interface CompileProviderMetadata {\n  token: CompileTokenMetadata;\n useClass?:
CompileTypeMetadata;\n useValue?: any;\n useExisting?: CompileTokenMetadata;\n useFactory?:
CompileFactoryMetadata;\n deps?: CompileDiDependencyMetadata[];\n multi?: boolean;\n}\n\n\nexport interface
CompileFactoryMetadata extends CompileIdentifierMetadata {\n  diDeps: CompileDiDependencyMetadata[];\n

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reference: any;\n\n/**\n * @param {?} token\n * @return {?}\n */\nexport function tokenName(token:
CompileTokenMetadata) {\n  return isPresent(token.value) ? _sanitizeIdentifier(token.value) :\n  identifierName(token.identifier);\n}\n\n/**\n * @param {?} token\n * @return {?}\n */\nexport function
tokenReference(token: CompileTokenMetadata) {\n  if (isPresent(token.identifier)) {\n    return
token.identifier.reference;\n  } else {\n    return token.value;\n  }\n}\n\nexport interface CompileTokenMetadata {\n
value?: any;\n  identifier?: CompileIdentifierMetadata|CompileTypeMetadata;\n}\n\n/**\n * Metadata regarding
compilation of a type.\n */\nexport interface CompileTypeMetadata extends CompileIdentifierMetadata {\n  diDeps:
CompileDiDependencyMetadata[];\n  lifecycleHooks: LifecycleHooks[];\n  reference: any;\n}\n\nexport interface
CompileQueryMetadata {\n  selectors: Array<CompileTokenMetadata>;\n  descendants: boolean;\n  first:
boolean;\n  propertyName: string;\n  read: CompileTokenMetadata;\n}\n\n/**\n * Metadata about a stylesheet\n
*/\nexport class CompileStylesheetMetadata {\n  moduleId: string;\n  styles: string[];\n  styleUrls: string[];\n}\n\n/**\n *
@param {?=} __0\n */\nconstructor(\n  {moduleId, styles,\n   styleUrls}: {moduleId?: string, styles?:
string[], styleUrls?: string[]} = {}) {\n  this.moduleId = moduleId;\n  this.styles = _normalizeArray(styles);\n
  this.styleUrls = _normalizeArray(styleUrls);\n}\n}\n\nfunction
CompileStylesheetMetadata_tsickle_Closure_declarations() {\n  /** @type {?}
*/\n  CompileStylesheetMetadata.prototype.moduleId;\n  /** @type {?}
*/\n  CompileStylesheetMetadata.prototype.styles;\n  /** @type {?}
*/\n  CompileStylesheetMetadata.prototype.styleUrls;\n}\n\n\n/**\n * Summary Metadata regarding compilation of a
template.\n */\nexport interface CompileTemplateSummary {\n  animations: string[];\n  ngContentSelectors:
string[];\n  encapsulation: ViewEncapsulation;\n}\n\n/**\n * Metadata regarding compilation of a template.\n
*/\nexport class CompileTemplateMetadata {\n  encapsulation: ViewEncapsulation;\n  template: string;\n
  templateUrl: string;\n  styles: string[];\n  styleUrls: string[];\n  externalStylesheets: CompileStylesheetMetadata[];\n
  animations: CompileAnimationEntryMetadata[];\n  ngContentSelectors: string[];\n  interpolation: [string,
string];\n}\n\n/**\n * @param {?=} __0\n */\nconstructor(\n  {encapsulation, template, templateUrl, styles, styleUrls,
externalStylesheets, animations,\n   ngContentSelectors, interpolation}: {\n   encapsulation?:
ViewEncapsulation,\n   template?: string,\n   templateUrl?: string,\n   styles?: string[],\n   styleUrls?:
string[],\n   externalStylesheets?: CompileStylesheetMetadata[],\n   ngContentSelectors?: string[],\n   animations?:
CompileAnimationEntryMetadata[],\n   interpolation?: [string, string]\n } = {}) {\n  this.encapsulation = encapsulation;\n
  this.template = template;\n  this.templateUrl = templateUrl;\n  this.styles =
_normalizeArray(styles);\n  this.styleUrls = _normalizeArray(styleUrls);\n  this.externalStylesheets =
_normalizeArray(externalStylesheets);\n  this.animations = animations ? ListWrapper.flatten(animations) : [];\n
  this.ngContentSelectors = ngContentSelectors || [];\n  if (interpolation && interpolation.length != 2) {\n
  throw new Error('interpolation' should have a start and an end symbol.);\n  }\n  this.interpolation = interpolation;\n
}\n}\n\n/**\n * @return {?}\n */\nexport function CompileTemplateSummary() {\n  return {\n    animations:
this.animations.map(anim => anim.name),\n    ngContentSelectors: this.ngContentSelectors,\n    encapsulation:
this.encapsulation\n  };\n}\n}\n\nfunction CompileTemplateMetadata_tsickle_Closure_declarations() {\n  /**
*/\n  CompileTemplateMetadata.prototype.encapsulation;\n  /** @type {?}
*/\n  CompileTemplateMetadata.prototype.template;\n  /** @type {?}
*/\n  CompileTemplateMetadata.prototype.templateUrl;\n  /** @type {?}
*/\n  CompileTemplateMetadata.prototype.styles;\n  /** @type {?}
*/\n  CompileTemplateMetadata.prototype.styleUrls;\n  /** @type {?}
*/\n  CompileTemplateMetadata.prototype.externalStylesheets;\n  /** @type {?}
*/\n  CompileTemplateMetadata.prototype.animations;\n  /** @type {?}
*/\n  CompileTemplateMetadata.prototype.ngContentSelectors;\n}\n\n\n/**\n * Note: This should only use interfaces as nested
data types\n */\nexport interface CompileDirectiveSummary extends CompileTypeSummary {\n  type: CompileTypeMetadata;\n
isComponent: boolean;\n  selector: string;\n  exportAs: string;\n  inputs: {[key: string]: string};\n  outputs: {[key:
string]: string};\n  hostListeners: {[key: string]:

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string};\n hostProperties: {[key: string]: string};\n hostAttributes: {[key: string]: string};\n providers:
CompileProviderMetadata[];\n viewProviders: CompileProviderMetadata[];\n queries: CompileQueryMetadata[];\n
entryComponents: CompileIdentifierMetadata[];\n changeDetection: ChangeDetectionStrategy;\n template:
CompileTemplateSummary;\n}\n/**\n * Metadata regarding compilation of a directive.\n */\nexport class
CompileDirectiveMetadata {\n/**\n * @param {?=} __0\n * @return {?} */\n * ^\nstatic create(\n {isHost, type,
isComponent, selector, exportAs, changeDetection, inputs, outputs, host,\n providers, viewProviders, queries,
viewQueries, entryComponents, template}: {\n isHost?: boolean,\n type?: CompileTypeMetadata,\n
isComponent?: boolean,\n selector?: string,\n exportAs?: string,\n changeDetection?:
ChangeDetectionStrategy,\n inputs?: string[],\n outputs?: string[],\n host?: {[key: string]: string},\n
providers?: CompileProviderMetadata[],\n viewProviders?: CompileProviderMetadata[],\n queries?:
CompileQueryMetadata[],\n viewQueries?: CompileQueryMetadata[],\n entryComponents?:
CompileIdentifierMetadata[],\n template?: CompileTemplateMetadata\n } = {}): CompileDirectiveMetadata
{\n const /** @type {?} */ hostListeners: {[key: string]: string} = {};\n const /** @type {?} */ hostProperties:
{[key: string]: string} = {};\n const /** @type {?} */ hostAttributes: {[key: string]: string} = {};\n if
(isPresent(host)) {\n Object.keys(host).forEach(key => {\n const /** @type {?} */ value = host[key];\n
const /** @type {?} */ matches = key.match(HOST_REG_EXP);\n if (matches === null) {\n
hostAttributes[key] = value;\n } else if (isPresent(matches[1])) {\n hostProperties[matches[1]] = value;\n
} else if (isPresent(matches[2])) {\n hostListeners[matches[2]] = value;\n }\n });\n }\n }\n const /**
@type {?} */ inputsMap: {[key: string]: string} = {};\n if (isPresent(inputs)) {\n inputs.forEach((bindConfig:
string) => {\n // canonical syntax: `dirProp: elProp`\n // if there is no ``, use dirProp = elProp\n const
/** @type {?} */ parts = splitAtColon(bindConfig, [bindConfig, bindConfig]);\n inputsMap[parts[0]] =
parts[1];\n });\n }\n }\n const /** @type {?} */ outputsMap: {[key: string]: string} = {};\n if
(isPresent(outputs)) {\n outputs.forEach((bindConfig: string) => {\n // canonical syntax: `dirProp: elProp`\n
// if there is no ``, use dirProp = elProp\n const /** @type {?} */ parts = splitAtColon(bindConfig,
[bindConfig, bindConfig]);\n outputsMap[parts[0]] = parts[1];\n });\n }\n }\n return new
CompileDirectiveMetadata({\n isHost,\n type,\n isComponent: !!isComponent, selector, exportAs,
changeDetection,\n inputs: inputsMap,\n outputs: outputsMap,\n hostListeners,\n hostProperties,\n
hostAttributes,\n providers,\n viewProviders,\n queries,\n viewQueries,\n entryComponents,\n
template,\n });\n }\n }\n isHost: boolean;\n type: CompileTypeMetadata;\n isComponent: boolean;\n selector:
string;\n exportAs: string;\n changeDetection: ChangeDetectionStrategy;\n inputs: {[key: string]: string};\n
outputs: {[key: string]: string};\n hostListeners: {[key: string]: string};\n hostProperties: {[key: string]: string};\n
hostAttributes: {[key: string]: string};\n providers: CompileProviderMetadata[];\n viewProviders:
CompileProviderMetadata[];\n queries: CompileQueryMetadata[];\n viewQueries: CompileQueryMetadata[];\n
entryComponents: CompileIdentifierMetadata[];\n\n template: CompileTemplateMetadata;\n/**\n * @param {?=}
__0\n * ^\nconstructor(\n {isHost, type, isComponent, selector, exportAs, changeDetection, inputs, outputs,\n
hostListeners, hostProperties, hostAttributes, providers, viewProviders, queries,\n viewQueries,
entryComponents, template}: {\n isHost?: boolean,\n type?: CompileTypeMetadata,\n isComponent?:
boolean,\n selector?: string,\n exportAs?: string,\n changeDetection?: ChangeDetectionStrategy,\n
inputs?: {[key: string]: string},\n outputs?: {[key: string]: string},\n hostListeners?: {[key: string]: string},\n
hostProperties?: {[key: string]: string},\n hostAttributes?: {[key: string]: string},\n providers?:
CompileProviderMetadata[],\n viewProviders?: CompileProviderMetadata[],\n queries?:
CompileQueryMetadata[],\n viewQueries?: CompileQueryMetadata[],\n entryComponents?:
CompileIdentifierMetadata[],\n template?: CompileTemplateMetadata\n } = {})\n {\n this.isHost =
!!isHost;\n this.type = type;\n this.isComponent = isComponent;\n this.selector = selector;\n this.exportAs =
exportAs;\n this.changeDetection = changeDetection;\n this.inputs = inputs;\n this.outputs = outputs;\n
this.hostListeners = hostListeners;\n this.hostProperties = hostProperties;\n this.hostAttributes =
hostAttributes;\n this.providers = _normalizeArray(providers);\n this.viewProviders =
_normalizeArray(viewProviders);\n this.queries = _normalizeArray(queries);\n this.viewQueries =

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_normalizeArray(viewQueries);\n  this.entryComponents = _normalizeArray(entryComponents);\n\n  this.template = template;\n } \n\n * @return {?} \n\n * ^\n\n toSummary(): CompileDirectiveSummary {\n  return {\n    summaryKind: CompileSummaryKind.Directive,\n    type: this.type,\n    isComponent: this.isComponent,\n    selector: this.selector,\n    exportAs: this.exportAs,\n    inputs: this.inputs,\n    outputs: this.outputs,\n    hostListeners: this.hostListeners,\n    hostProperties: this.hostProperties,\n    hostAttributes: this.hostAttributes,\n    providers: this.providers,\n    viewProviders: this.viewProviders,\n    queries: this.queries,\n    entryComponents: this.entryComponents,\n    changeDetection: this.changeDetection,\n    template: this.template\n } && this.template.toSummary()\n };\n } \n\n }\n\n\nfunction\nCompileDirectiveMetadata_tsickle_Closure_declarations() {\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.isHost;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.type;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.isComponent;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.selector;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.exportAs;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.changeDetection;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.inputs;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.outputs;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.hostListeners;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.hostProperties;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.hostAttributes;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.providers;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.viewProviders;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.queries;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.viewQueries;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.entryComponents;\n\n /** @type {?} *\n\n ^\n\n CompileDirectiveMetadata.prototype.template;\n } \n\n }\n\n\n /** *\n\n ^\n\n Construct { @link CompileDirectiveMetadata } from { @link ComponentTypeMetadata } and a selector.\n\n * @param {?} typeReference\n\n * @param {?} compMeta\n\n * @return {?} \n\n * ^\n\n\n export function createHostComponentMeta(\n  typeReference: any, compMeta: CompileDirectiveMetadata): CompileDirectiveMetadata {\n  const /** @type {?} */ template = CssSelector.parse(compMeta.selector)[0].getMatchingElementTemplate();\n  return CompileDirectiveMetadata.create({\n    isHost: true,\n    type: {reference: typeReference, diDeps: [], lifecycleHooks: []},\n    template: new CompileTemplateMetadata({\n      encapsulation: ViewEncapsulation.None,\n      template: template,\n      templateUrl: "",\n      styles: [],\n      styleUrls: [],\n      ngContentSelectors: [],\n      animations: []\n })),\n    changeDetection: ChangeDetectionStrategy.Default,\n    inputs: [],\n    outputs: [],\n    host: {},\n    isComponent: true,\n    selector: '*',\n    providers: [],\n    viewProviders: [],\n    queries: [],\n    viewQueries: []\n });\n }\n\n\n\n export interface CompilePipeSummary extends CompileTypeSummary {\n  type: CompileTypeMetadata;\n  name: string;\n  pure: boolean;\n }\n\n\n\n export class CompilePipeMetadata {\n  type: CompileTypeMetadata;\n  name: string;\n  pure: boolean;\n\n\n /** *\n\n ^\n\n * @param {?=} __0\n\n * ^\n\n\n constructor({type, name, pure}: {\n  type?: CompileTypeMetadata,\n  name?: string,\n  pure?: boolean,\n } = {}) {\n  this.type = type;\n  this.name = name;\n  this.pure = !!pure;\n }\n\n\n\n /** *\n\n ^\n\n * @return {?} \n\n * ^\n\n\n toSummary(): CompilePipeSummary {\n  return {\n    summaryKind: CompileSummaryKind.Pipe,\n    type: this.type,\n    name: this.name,\n    pure: this.pure\n };\n }\n\n\n\n }\n\n\n\n CompilePipeMetadata_tsickle_Closure_declarations() {\n\n /** @type {?} *\n\n ^\n\n CompilePipeMetadata.prototype.type;\n\n /** @type {?} *\n\n ^\n\n CompilePipeMetadata.prototype.name;\n\n /** @type {?} *\n\n ^\n\n CompilePipeMetadata.prototype.pure;\n } \n\n }\n\n\n\n // Note: This should only use interfaces as nested data types\n\n // as we need to be able to serialize this from/to JSON!\n\n\n export interface CompileNgModuleSummary extends CompileTypeSummary {\n  type: CompileTypeMetadata;\n\n // Note: This is transitive over the exported modules.\n  exportedDirectives: CompileIdentifierMetadata[];\n\n // Note: This is transitive over the exported modules.\n  exportedPipes: CompileIdentifierMetadata[];\n\n\n // Note: This is transitive.\n  entryComponents:

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CompileIdentifierMetadata[];\n // Note: This is transitive.\n providers: {provider: CompileProviderMetadata,
module: CompileIdentifierMetadata}[];\n // Note: This is transitive.\n modules: CompileTypeMetadata[];\n}\n/**\n * Metadata regarding compilation of a module.\n */\nexport class CompileNgModuleMetadata {\n type:
CompileTypeMetadata;\n declaredDirectives: CompileIdentifierMetadata[];\n exportedDirectives:
CompileIdentifierMetadata[];\n declaredPipes: CompileIdentifierMetadata[];\n\n exportedPipes:
CompileIdentifierMetadata[];\n entryComponents: CompileIdentifierMetadata[];\n bootstrapComponents:
CompileIdentifierMetadata[];\n providers: CompileProviderMetadata[];\n\n importedModules:
CompileNgModuleSummary[];\n exportedModules: CompileNgModuleSummary[];\n schemas:
SchemaMetadata[];\n id: string;\n\n transitiveModule: TransitiveCompileNgModuleMetadata;\n\n * @param
{?=} __0\n * ^\nconstructor(\n   type, providers, declaredDirectives, exportedDirectives, declaredPipes,
exportedPipes,\n   entryComponents, bootstrapComponents, importedModules, exportedModules, schemas,\n
transitiveModule, id): {\n   type?: CompileTypeMetadata,\n   providers?: CompileProviderMetadata[],\n
declaredDirectives?: CompileIdentifierMetadata[],\n   exportedDirectives?: CompileIdentifierMetadata[],\n
declaredPipes?: CompileIdentifierMetadata[],\n   exportedPipes?: CompileIdentifierMetadata[],\n
entryComponents?: CompileIdentifierMetadata[],\n   bootstrapComponents?: CompileIdentifierMetadata[],\n
importedModules?: CompileNgModuleSummary[],\n   exportedModules?: CompileNgModuleSummary[],\n
transitiveModule?: TransitiveCompileNgModuleMetadata,\n   schemas?: SchemaMetadata[],\n   id?: string\n } = {})\n this.type = type;\n this.declaredDirectives = _normalizeArray(declaredDirectives);\n
this.exportedDirectives = _normalizeArray(exportedDirectives);\n this.declaredPipes =
_normalizeArray(declaredPipes);\n this.exportedPipes = _normalizeArray(exportedPipes);\n this.providers =
_normalizeArray(providers);\n this.entryComponents = _normalizeArray(entryComponents);\n
this.bootstrapComponents = _normalizeArray(bootstrapComponents);\n this.importedModules =
_normalizeArray(importedModules);\n this.exportedModules = _normalizeArray(exportedModules);\n
this.schemas = _normalizeArray(schemas);\n this.id = id;\n this.transitiveModule = transitiveModule;\n }\n/**\n * @return {?} ^\n * ^\ntoSummary(): CompileNgModuleSummary {\n return {\n   summaryKind:
CompileSummaryKind.NgModule,\n   type: this.type,\n   entryComponents:
this.transitiveModule.entryComponents,\n   providers: this.transitiveModule.providers,\n   modules:
this.transitiveModule.modules,\n   exportedDirectives: this.transitiveModule.exportedDirectives,\n
exportedPipes: this.transitiveModule.exportedPipes\n };}\n}\n\nfunction
CompileNgModuleMetadata_tsickle_Closure_declarations() {\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.type;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.declaredDirectives;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.exportedDirectives;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.declaredPipes;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.exportedPipes;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.entryComponents;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.bootstrapComponents;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.providers;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.importedModules;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.exportedModules;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.schemas;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.id;\n /** @type {?}
*\n * ^\nCompileNgModuleMetadata.prototype.transitiveModule;\n }\n}\n\nexport class
TransitiveCompileNgModuleMetadata {\n directivesSet = new Set<any>();\n directives:
CompileIdentifierMetadata[] = [];\n exportedDirectivesSet = new Set<any>();\n exportedDirectives:
CompileIdentifierMetadata[] = [];\n pipesSet = new Set<any>();\n pipes: CompileIdentifierMetadata[] = [];\n
exportedPipesSet = new Set<any>();\n exportedPipes: CompileIdentifierMetadata[] = [];\n modulesSet = new
Set<any>();\n modules: CompileTypeMetadata[] = [];\n entryComponentsSet = new Set<any>();\n

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entryComponents: CompileIdentifierMetadata[] = [];\n\n providers: {provider: CompileProviderMetadata, module:
CompileIdentifierMetadata}[] = [];\n/**\n * @param {?} provider\n * @param {?} module\n * @return {?}\n
*\naddProvider(provider: CompileProviderMetadata, module: CompileIdentifierMetadata) {\n
this.providers.push({provider: provider, module: module});\n }\n/**\n * @param {?} id\n * @return {?}\n
*\naddDirective(id: CompileIdentifierMetadata) {\n if (!this.directivesSet.has(id.reference)) {\n
this.directivesSet.add(id.reference);\n this.directives.push(id);\n }\n }\n/**\n * @param {?} id\n * @return
{?}\n *\naddExportedDirective(id: CompileIdentifierMetadata) {\n if
(!this.exportedDirectivesSet.has(id.reference)) {\n this.exportedDirectivesSet.add(id.reference);\n
this.exportedDirectives.push(id);\n }\n }\n/**\n * @param {?} id\n * @return {?}\n *\naddPipe(id:
CompileIdentifierMetadata) {\n if (!this.pipesSet.has(id.reference)) {\n this.pipesSet.add(id.reference);\n
this.pipes.push(id);\n }\n }\n/**\n * @param {?} id\n * @return {?}\n *\naddExportedPipe(id:
CompileIdentifierMetadata) {\n if (!this.exportedPipesSet.has(id.reference)) {\n
this.exportedPipesSet.add(id.reference);\n this.exportedPipes.push(id);\n }\n }\n/**\n * @param {?} id\n *
@return {?}\n *\naddModule(id: CompileTypeMetadata) {\n if (!this.modulesSet.has(id.reference)) {\n
this.modulesSet.add(id.reference);\n this.modules.push(id);\n }\n }\n/**\n * @param {?} id\n * @return {?}\n
*\naddEntryComponent(id: CompileIdentifierMetadata) {\n if (!this.entryComponentsSet.has(id.reference)) {\n
this.entryComponentsSet.add(id.reference);\n this.entryComponents.push(id);\n }\n }\n}\n\nfunction
TransitiveCompileNgModuleMetadata_tsickle_Closure_declarations() {\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.directivesSet;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.directives;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.exportedDirectivesSet;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.exportedDirectives;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.pipesSet;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.pipes;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.exportedPipesSet;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.exportedPipes;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.modulesSet;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.modules;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.entryComponentsSet;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.entryComponents;\n/** @type {?}
*\nTransitiveCompileNgModuleMetadata.prototype.providers;\n}\n\n/**\n * @param {?} obj\n * @return {?}\n
*\nfunction _normalizeArray(obj: any[]): any[] {\n return obj || [];\n}\n\nexport class ProviderMeta {\n token:
any;\n useClass: Type<any>;\n useValue: any;\n useExisting: any;\n useFactory: Function;\n dependencies:
Object[];\n multi: boolean;\n/**\n * @param {?} token\n * @param {?} __1\n *\nconstructor(token: any,
{useClass, useValue, useExisting, useFactory, deps, multi}: {\n useClass?: Type<any>;\n useValue?: any;\n
useExisting?: any;\n useFactory?: Function;\n deps?: Object[];\n multi?: boolean\n }) {\n this.token =
token;\n this.useClass = useClass;\n this.useValue = useValue;\n this.useExisting = useExisting;\n
this.useFactory = useFactory;\n this.dependencies = deps;\n this.multi = !!multi;\n }\n}\n\nfunction
ProviderMeta_tsickle_Closure_declarations() {\n/** @type {?} *\nProviderMeta.prototype.token;\n/** @type {?}
*\nProviderMeta.prototype.useClass;\n/** @type {?} *\nProviderMeta.prototype.useValue;\n/** @type {?}
*\nProviderMeta.prototype.useExisting;\n/** @type {?} *\nProviderMeta.prototype.useFactory;\n/** @type {?}
*\nProviderMeta.prototype.dependencies;\n/** @type {?} *\nProviderMeta.prototype.multi;\n}\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/compile\_metadata.js.map

No license file was found, but licenses were detected in source scan.

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E,CAAC,EAAE,0CAAoB,EAAC,CAAC;AAC3E,CAAC", "sourcesContent":["/\*\n \* @license\n \* Copyright  
Google Inc. All Rights Reserved.\n \* Use of this source code is governed by an MIT-style license that can be\n \*  
found in the LICENSE file at https://angular.io/license\n \*/\n\nimport {SchemaMetadata} from  
'@angular/core';\n\nimport {AnimationCompiler} from './animation/animation\_compiler';\nimport  
{AnimationParser} from './animation/animation\_parser';\nimport {CompileDirectiveMetadata,  
CompileIdentifierMetadata, CompileNgModuleMetadata, CompilePipeMetadata, CompileProviderMetadata,  
CompileTypeSummary, createHostComponentMeta, identifierModuleUrl, identifierName} from  
'./compile\_metadata';\nimport {DirectiveNormalizer} from './directive\_normalizer';\nimport  
{DirectiveWrapperCompileResult, DirectiveWrapperCompiler} from './directive\_wrapper\_compiler';\nimport  
{ListWrapper} from './facade/collection';\nimport {Identifiers, createIdentifier, createIdentifierToken} from  
'./identifiers';\nimport {CompileMetadataResolver} from './metadata\_resolver';\nimport {NgModuleCompiler}  
from './ng\_module\_compiler';\nimport {OutputEmitter} from './output/abstract\_emitter';\nimport \* as o from  
'./output/output\_ast';\nimport {CompiledStylesheet, StyleCompiler} from './style\_compiler';\nimport

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{SummaryResolver} from './summary_resolver';\nimport {TemplateParser} from
 './template_parser/template_parser';\nimport {ComponentFactoryDependency, DirectiveWrapperDependency,
 ViewClassDependency, ViewCompileResult, ViewCompiler} from './view_compiler/view_compiler';\n\nimport
 {AotCompilerHost} from './compiler_host';\nimport {GeneratedFile} from './generated_file';\nimport
 {StaticSymbol} from './static_symbol';\nimport {ResolvedStaticSymbol, StaticSymbolResolver} from
 './static_symbol_resolver';\nimport {serializeSummaries, summaryFileName} from './summary_serializer';\n\nexport
 class AotCompiler {\nprivate _animationCompiler = new AnimationCompiler();\n/**\n * @param {?} _host\n *
 * @param {?} _metadataResolver\n * @param {?} _templateParser\n * @param {?} _styleCompiler\n * @param {?}
 _viewCompiler\n * @param {?} _dirWrapperCompiler\n * @param {?} _ngModuleCompiler\n * @param {?}
 _outputEmitter\n * @param {?} _summaryResolver\n * @param {?} _localeId\n * @param {?}
 _translationFormat\n * @param {?} _animationParser\n * @param {?} _symbolResolver\n *\nconstructor(\nprivate
 _host: AotCompilerHost,\nprivate _metadataResolver: CompileMetadataResolver,\nprivate _templateParser:
 TemplateParser,\nprivate _styleCompiler: StyleCompiler,\nprivate _viewCompiler: ViewCompiler,\nprivate
 _dirWrapperCompiler: DirectiveWrapperCompiler,\nprivate _ngModuleCompiler: NgModuleCompiler,\nprivate
 _outputEmitter: OutputEmitter,\nprivate _summaryResolver: SummaryResolver<StaticSymbol>,\nprivate _localeId:
 string,\nprivate _translationFormat: string,\nprivate _animationParser: AnimationParser,\nprivate _symbolResolver:
 StaticSymbolResolver) {\n\n/**\n * @return {?} \n *\nclearCache() { this._metadataResolver.clearCache(); }\n/**\n
 * @param {?} rootFiles\n * @return {?} \n *\ncompileAll(rootFiles: string[]): Promise<GeneratedFile[]> {\n
const /** @type {?} */ programSymbols = extractProgramSymbols(this._symbolResolver, rootFiles, this._host);\n
const {ngModuleByPipeOrDirective, files, ngModules} =\n    analyzeAndValidateNgModules(programSymbols,
this._host, this._metadataResolver);\n    return Promise\n        .all(ngModules.map(\n            ngModule =>
this._metadataResolver.loadNgModuleDirectiveAndPipeMetadata(\n                ngModule.type.reference, false))\n        )\n        .then(() => {\n            const /** @type {?} */ sourceModules = files.map(\n                file => this._compileSrcFile(\n
                    file.srcUrl, ngModuleByPipeOrDirective, file.directives, file.pipes,\n                    file.ngModules,
file.injectables));\n            return ListWrapper.flatten(sourceModules);\n        });\n    }\n\n/**\n * @param {?}
srcFileUrl\n * @param {?} ngModuleByPipeOrDirective\n * @param {?} directives\n * @param {?} pipes\n *
@param {?} ngModules\n * @param {?} injectables\n * @return {?} \n *\nprivate _compileSrcFile(\n
srcFileUrl: string, ngModuleByPipeOrDirective: Map<StaticSymbol, CompileNgModuleMetadata>,\n    directives:
StaticSymbol[], pipes: StaticSymbol[], ngModules: StaticSymbol[],\n    injectables: StaticSymbol[]):
GeneratedFile[] {\n    const /** @type {?} */ fileSuffix = _splitTypescriptSuffix(srcFileUrl)[1];\n    const /** @type
 {?} */ statements: o.Statement[] = [];\n    const /** @type {?} */ exportedVars: string[] = [];\n    const /** @type
 {?} */ generatedFiles: GeneratedFile[] = [];\n\n    generatedFiles.push(this._createSummary(srcFileUrl, directives,
pipes, ngModules, injectables));\n\n    // compile all ng modules\n    exportedVars.push(\n
...ngModules.map((ngModuleType) => this._compileModule(ngModuleType, statements));\n\n    // compile
directive wrappers\n    exportedVars.push(...directives.map(\n        (directiveType) =>
this._compileDirectiveWrapper(directiveType, statements));\n\n    // compile components\n
directives.forEach((dirType) => {\n        const /** @type {?} */ compMeta =
this._metadataResolver.getDirectiveMetadata(/** @type {?} */((<any>dirType)));\n        if
(!compMeta.isComponent) {\n            return Promise.resolve(null);\n        }\n        const /** @type {?} */ ngModule =
ngModuleByPipeOrDirective.get(dirType);\n        if (!ngModule) {\n            throw new Error(\n                `Internal Error:
cannot determine the module for component ${identifierName(compMeta.type)}!`);\n        }\n\n        _assertComponent(compMeta);\n\n        // compile styles\n        const /** @type {?} */ stylesCompileResults =
this._styleCompiler.compileComponent(compMeta);\n\n        stylesCompileResults.externalStylesheets.forEach((compiledStyleSheet) => {\n
generatedFiles.push(this._codegenStyles(srcFileUrl, compiledStyleSheet, fileSuffix));\n        });\n\n        // compile
components\n        exportedVars.push(\n            this._compileComponentFactory(compMeta, ngModule, fileSuffix,
statements),\n            this._compileComponent(\n                compMeta, ngModule,
ngModule.transitiveModule.directives,\n                stylesCompileResults.componentStylesheet, fileSuffix,

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statements));\n  });\n  if (statements.length > 0) {\n    const /** @type {?} */ srcModule =
this._codegenSourceModule(\n      srcFileUrl, _ngfactoryModuleUrl(srcFileUrl), statements, exportedVars);\n    generatedFiles.unshift(srcModule);\n  }\n  return generatedFiles;\n } \n/**\n * @param {?} srcFileUrl\n * @param {?} directives\n * @param {?} pipes\n * @param {?} ngModules\n * @param {?} injectables\n * @return
{?}\n */\nprivate _createSummary(\n  srcFileUrl: string, directives: StaticSymbol[], pipes: StaticSymbol[],\n  ngModules: StaticSymbol[], injectables: StaticSymbol[]): GeneratedFile {\n  const /** @type {?} */
symbolSummaries = this._symbolResolver.getSymbolsOf(srcFileUrl)\n    .map(symbol =>
this._symbolResolver.resolveSymbol(symbol));\n  const /** @type {?} */ typeSummaries = [\n
...ngModules.map(ref => this._metadataResolver.getNgModuleSummary(ref)),\n  ...directives.map(ref =>
this._metadataResolver.getDirectiveSummary(ref)),\n  ...pipes.map(ref =>
this._metadataResolver.getPipeSummary(ref)),\n  ...injectables.map(ref =>
this._metadataResolver.getInjectableSummary(ref))\n ];\n  const /** @type {?} */ json = serializeSummaries(\n
  this._host, this._summaryResolver, this._symbolResolver, symbolSummaries, typeSummaries);\n  return new
GeneratedFile(srcFileUrl, summaryFileName(srcFileUrl), json);\n } \n/**\n * @param {?} ngModuleType\n *
@param {?} targetStatements\n * @return {?}\n */\nprivate _compileModule(ngModuleType: StaticSymbol,
targetStatements: o.Statement[]): string {\n  const /** @type {?} */ ngModule =
this._metadataResolver.getNgModuleMetadata(ngModuleType);\n  const /** @type {?} */ providers:
CompileProviderMetadata[] = [];\n  if (this._localeId) {\n    providers.push({\n      token:
createIdentifierToken(Identifiers.LOCALE_ID),\n      useValue: this._localeId,\n    });\n  }\n  if
(this._translationFormat) {\n    providers.push({\n      token:
createIdentifierToken(Identifiers.TRANSLATIONS_FORMAT),\n      useValue: this._translationFormat\n    });\n
  }\n  const /** @type {?} */ appCompileResult = this._ngModuleCompiler.compile(ngModule, providers);\n  \n
appCompileResult.dependencies.forEach((dep) => {\n    dep.placeholder.reference =
this._symbolResolver.getStaticSymbol(\n      _ngfactoryModuleUrl(identifierModuleUrl(dep.comp)),
_componentFactoryName(dep.comp));\n  });\n  \n  targetStatements.push(...appCompileResult.statements);\n
  return appCompileResult.ngModuleFactoryVar;\n } \n/**\n * @param {?} directiveType\n * @param {?}
targetStatements\n * @return {?}\n */\nprivate _compileDirectiveWrapper(directiveType: StaticSymbol,
targetStatements: o.Statement[]): string {\n  const /** @type {?} */ dirMeta =
this._metadataResolver.getDirectiveMetadata(directiveType);\n  const /** @type {?} */ dirCompileResult =
this._dirWrapperCompiler.compile(dirMeta);\n  \n  targetStatements.push(...dirCompileResult.statements);\n
  return dirCompileResult.dirWrapperClassVar;\n } \n/**\n * @param {?} compMeta\n * @param {?} ngModule\n *
@param {?} fileSuffix\n * @param {?} targetStatements\n * @return {?}\n */\nprivate
_compileComponentFactory(\n  compMeta: CompileDirectiveMetadata, ngModule: CompileNgModuleMetadata,
fileSuffix: string,\n  targetStatements: o.Statement[]): string {\n  const /** @type {?} */ hostMeta =
createHostComponentMeta(\n    this._symbolResolver.getStaticSymbol(\n
identifierModuleUrl(compMeta.type), `${identifierName(compMeta.type)}_Host`),\n    compMeta);\n  const /**
@type {?} */ hostViewFactoryVar = this._compileComponent(\n    hostMeta, ngModule, [compMeta.type], null,
fileSuffix, targetStatements);\n  const /** @type {?} */ compFactoryVar =
_componentFactoryName(compMeta.type);\n  targetStatements.push(\n    o.variable(compFactoryVar)\n
.set(o.importExpr(\n      createIdentifier(Identifiers.ComponentFactory),
[o.importType(compMeta.type)])\n      .instantiate(\n        [\n
o.literal(compMeta.selector),\n        o.variable(hostViewFactoryVar),\n
o.importExpr(compMeta.type),\n        ],\n        o.importType(\n
createIdentifier(Identifiers.ComponentFactory),\n        [o.importType(compMeta.type)],
[o.TypeModifier.Const]))\n      .toDeclStmt(null, [o.StmtModifier.Final]));\n  return compFactoryVar;\n
} \n/**\n * @param {?} compMeta\n * @param {?} ngModule\n * @param {?} directiveIdentifiers\n * @param {?}
componentStyles\n * @param {?} fileSuffix\n * @param {?} targetStatements\n * @return {?}\n */\nprivate
_compileComponent(\n  compMeta: CompileDirectiveMetadata, ngModule: CompileNgModuleMetadata,\n

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directiveIdentifiers: CompileIdentifierMetadata[], componentStyles: CompiledStylesheet,\n   fileSuffix: string,
targetStatements: o.Statement[]): string {\n   const /** @type {?} */ parsedAnimations =
this._animationParser.parseComponent(compMeta);\n   const /** @type {?} */ directives =\n   directiveIdentifiers.map(dir => this._metadataResolver.getDirectiveSummary(dir.reference));\n   const /** @type
 {?} */ pipes = ngModule.transitiveModule.pipes.map(\n   pipe =>
this._metadataResolver.getPipeSummary(pipe.reference));\n\n   const /** @type {?} */ parsedTemplate =
this._templateParser.parse(\n   compMeta, compMeta.template.template, directives, pipes, ngModule.schemas,\n   identifierName(compMeta.type));\n   const /** @type {?} */ stylesExpr = componentStyles ?
o.variable(componentStyles.stylesVar) : o.literalArr([]);\n   const /** @type {?} */ compiledAnimations =\n   this._animationCompiler.compile(identifierName(compMeta.type), parsedAnimations);\n   const /** @type {?} */
viewResult = this._viewCompiler.compileComponent(\n   compMeta, parsedTemplate, stylesExpr, pipes,
compiledAnimations);\n   if (componentStyles) {\n   targetStatements.push(\n
..._resolveStyleStatements(this._symbolResolver, componentStyles, fileSuffix));\n   }\n   compiledAnimations.forEach(entry => targetStatements.push(...entry.statements));\n   targetStatements.push(..._resolveViewStatements(this._symbolResolver, viewResult));\n   return
viewResult.viewClassVar;\n   }\n\n/**\n * @param {?} fileUrl\n * @param {?} stylesCompileResult\n * @param {?}
fileSuffix\n * @return {?} */\n\nprivate _codegenStyles(\n   fileUrl: string, stylesCompileResult:
CompiledStylesheet, fileSuffix: string): GeneratedFile {\n   _resolveStyleStatements(this._symbolResolver,
stylesCompileResult, fileSuffix);\n   return this._codegenSourceModule(\n   fileUrl, _stylesModuleUrl(\n
stylesCompileResult.meta.moduleUrl, stylesCompileResult.isShimmed, fileSuffix),\n
stylesCompileResult.statements, [stylesCompileResult.stylesVar]);\n   }\n\n/**\n * @param {?} srcFileUrl\n *
@param {?} genFileUrl\n * @param {?} statements\n * @param {?} exportedVars\n * @return {?} */\n\nprivate
_codegenSourceModule(\n   srcFileUrl: string, genFileUrl: string, statements: o.Statement[],\n   exportedVars:
string[]): GeneratedFile {\n   return new GeneratedFile(\n   srcFileUrl, genFileUrl,\n
this._outputEmitter.emitStatements(genFileUrl, statements, exportedVars));\n   }\n\nfunction
AotCompiler_tsickle_Closure_declarations() {\n   /** @type {?} */\n   AotCompiler.prototype._animationCompiler;\n
/** @type {?} */\n   AotCompiler.prototype._host;\n   /** @type {?} */\n   AotCompiler.prototype._metadataResolver;\n
/** @type {?} */\n   AotCompiler.prototype._templateParser;\n   /** @type {?} */\n   AotCompiler.prototype._styleCompiler;\n   /** @type {?} */\n   AotCompiler.prototype._viewCompiler;\n   /**
@type {?} */\n   AotCompiler.prototype._dirWrapperCompiler;\n   /** @type {?} */\n   AotCompiler.prototype._ngModuleCompiler;\n   /** @type {?} */\n   AotCompiler.prototype._outputEmitter;\n   /**
@type {?} */\n   AotCompiler.prototype._summaryResolver;\n   /** @type {?} */\n   AotCompiler.prototype._localeId;\n   /** @type {?} */\n   AotCompiler.prototype._translationFormat;\n   /** @type
 {?} */\n   AotCompiler.prototype._animationParser;\n   /** @type {?} */\n   AotCompiler.prototype._symbolResolver;\n   }\n\n/**\n * @param {?} reflector\n * @param {?} compileResult\n
 * @return {?} */\n\nfunction _resolveViewStatements(\n   reflector: StaticSymbolResolver, compileResult:
ViewCompileResult): o.Statement[] {\n   compileResult.dependencies.forEach((dep) => {\n   if (dep instanceof
ViewClassDependency) {\n   const /** @type {?} */ vfd = /** @type {?} */ (( <ViewClassDependency>dep));\n
vfd.placeholder.reference =\n   reflector.getStaticSymbol(_ngfactoryModuleUrl(identifierModuleUrl(vfd.comp)), dep.name);\n   } else if (dep
instanceof ComponentFactoryDependency) {\n   const /** @type {?} */ cfd = /** @type {?} */ ((
<ComponentFactoryDependency>dep));\n   cfd.placeholder.reference = reflector.getStaticSymbol(\n
_ngfactoryModuleUrl(identifierModuleUrl(cfd.comp)), _componentFactoryName(cfd.comp));\n   } else if (dep
instanceof DirectiveWrapperDependency) {\n   const /** @type {?} */ dwd = /** @type {?} */ ((
<DirectiveWrapperDependency>dep));\n   dwd.placeholder.reference =\n   reflector.getStaticSymbol(_ngfactoryModuleUrl(identifierModuleUrl(dwd.dir)), dwd.name);\n   }\n   });\n   return
compileResult.statements;\n   }\n\n/**\n * @param {?} reflector\n * @param {?} compileResult\n * @param {?}
fileSuffix\n * @return {?} */\n\nfunction _resolveStyleStatements(\n   reflector: StaticSymbolResolver,

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compileResult: CompiledStylesheet,\n  fileSuffix: string): o.Statement[] {\n
compileResult.dependencies.forEach((dep) => {\n  dep.valuePlaceholder.reference = reflector.getStaticSymbol(\n
  _stylesModuleUrl(dep.moduleUrl, dep.isShimmed, fileSuffix), dep.name);\n  });\n  return
compileResult.statements;\n}\n/**\n * @param {?} dirUrl\n * @return {?}\n */\nfunction
_ngfactoryModuleUrl(dirUrl: string): string {\n  const /** @type {?} */ urlWithSuffix =
_splitTypescriptSuffix(dirUrl);\n  return `${urlWithSuffix[0]}.ngfactory${urlWithSuffix[1]}`;\n}\n/**\n * @param
 {?} comp\n * @return {?}\n */\nfunction _componentFactoryName(comp: CompileIdentifierMetadata): string {\n
return `${identifierName(comp)}NgFactory`;\n}\n/**\n * @param {?} stylesheetUrl\n * @param {?} shim\n *
@param {?} suffix\n * @return {?}\n */\nfunction _stylesModuleUrl(stylesheetUrl: string, shim: boolean, suffix:
string): string {\n  return `${stylesheetUrl}${shim ? '.shim': ''}.ngstyle${suffix}`;\n}\n/**\n * @param {?} meta\n *
@return {?}\n */\nfunction _assertComponent(meta: CompileDirectiveMetadata) {\n  if (!meta.isComponent) {\n
throw new Error(\n    `Could not compile '${identifierName(meta.type)}' because it is not a component.`);\n
  }\n}\n/**\n * @param {?} path\n * @return {?}\n */\nfunction _splitTypescriptSuffix(path: string): string[] {\n  if
(path.endsWith('.d.ts')) {\n    return [path.slice(0, -5), '.ts'];\n  }\n  const /** @type {?} */ lastDot =
path.lastIndexOf('.');\n  if (lastDot !== -1) {\n    return [path.substring(0, lastDot), path.substring(lastDot)];\n
  }\n  return [path, ''];\n}\n\nexport interface NgAnalyzedModules {\n  ngModules:
CompileNgModuleMetadata[];\n  ngModuleByPipeOrDirective: Map<StaticSymbol,
CompileNgModuleMetadata>;\n  files: Array<{\n    srcUrl: string,\n    directives: StaticSymbol[],\n    pipes:
StaticSymbol[],\n    ngModules: StaticSymbol[],\n    injectables: StaticSymbol[]\n  }>;\n  symbolsMissingModule?:
StaticSymbol[];\n}\n\nexport interface NgAnalyzeModulesHost {\n  isSourceFile(filePath: string): boolean;\n}\n/**\n *
@param {?} programStaticSymbols\n * @param {?} host\n * @param {?} metadataResolver\n * @return {?}\n */\n
export function analyzeNgModules(\n  programStaticSymbols: StaticSymbol[], host:
NgAnalyzeModulesHost,\n  metadataResolver: CompileMetadataResolver): NgAnalyzedModules {\n  const
{ngModules, symbolsMissingModule} =\n    _createNgModules(programStaticSymbols, host,
metadataResolver);\n  return _analyzeNgModules(programStaticSymbols, ngModules, symbolsMissingModule,
metadataResolver);\n}\n/**\n * @param {?} programStaticSymbols\n * @param {?} host\n * @param {?}
metadataResolver\n * @return {?}\n */\nexport function analyzeAndValidateNgModules(\n
programStaticSymbols: StaticSymbol[], host: NgAnalyzeModulesHost,\n  metadataResolver:
CompileMetadataResolver): NgAnalyzedModules {\n  const /** @type {?} */ result =
analyzeNgModules(programStaticSymbols, host, metadataResolver);\n  if (result.symbolsMissingModule &&
result.symbolsMissingModule.length) {\n    const /** @type {?} */ messages =
result.symbolsMissingModule.map(\n      s => `Cannot determine the module for class ${s.name} in
${s.filePath}`);\n    throw new Error(messages.join('\\n'));\n  }\n  return result;\n}\n/**\n * @param {?}
programSymbols\n * @param {?} ngModuleMetas\n * @param {?} symbolsMissingModule\n * @param {?}
metadataResolver\n * @return {?}\n */\nfunction _analyzeNgModules(\n  programSymbols: StaticSymbol[],\n
ngModuleMetas: CompileNgModuleMetadata[],\n  symbolsMissingModule: StaticSymbol[],\n
metadataResolver: CompileMetadataResolver): NgAnalyzedModules {\n  const /** @type {?} */
moduleMetasByRef = new Map<any, CompileNgModuleMetadata>;\n  ngModuleMetas.forEach((ngModule) =>
moduleMetasByRef.set(ngModule.type.reference, ngModule));\n  const /** @type {?} */
ngModuleByPipeOrDirective = new Map<StaticSymbol, CompileNgModuleMetadata>;\n  const /** @type {?} */
ngModulesByFile = new Map<string, StaticSymbol[]>;\n  const /** @type {?} */ ngDirectivesByFile = new
Map<string, StaticSymbol[]>;\n  const /** @type {?} */ ngPipesByFile = new Map<string, StaticSymbol[]>;\n
const /** @type {?} */ ngInjectablesByFile = new Map<string, StaticSymbol[]>;\n  const /** @type {?} */
filePaths = new Set<string>;\n  // Make sure we produce an analyzed file for each input file\n
programSymbols.forEach((symbol) => {\n    const /** @type {?} */ filePath = symbol.filePath;\n
filePaths.add(filePath);\n    if (metadataResolver.isInjectable(symbol)) {\n      ngInjectablesByFile.set(filePath,
(ngInjectablesByFile.get(filePath) || []).concat(symbol));\n    }\n  });\n  // Looping over all modules to construct:\n
// - a map from file to modules `ngModulesByFile`,\n  // - a map from file to directives `ngDirectivesByFile`,\n  // - a

```





Function;\n args?: any[];\n\n}}

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/compiler.js.map

No license file was found, but licenses were detected in source scan.

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import {DEFAULT_INTERPOLATION_CONFIG, InterpolationConfig} from
 './ml_parser/interpolation_config';
import {AST, ASTWithSource, AstVisitor, Binary, BindingPipe, Chain,
Conditional, EmptyExpr, FunctionCall, ImplicitReceiver, Interpolation, KeyedRead, KeyedWrite, LiteralArray,
LiteralMap, LiteralPrimitive, MethodCall, ParseSpan, ParserError, PrefixNot, PropertyRead, PropertyWrite, Quote,
SafeMethodCall, SafePropertyRead, TemplateBinding} from './ast';
import {EOF, Lexer, Token, TokenType,
isIdentifier, isQuote} from './lexer';
export class SplitInterpolation {
  /**
   * @param {?} strings
   * @param
   {?} expressions
   * @param {?} offsets
   * @constructor(public strings: string[],
   * public expressions:
   * string[],
   * public offsets: number[]) {}
  }
  function SplitInterpolation_tsickle_Closure_declarations() {
  /**
   * @type {?} */
  SplitInterpolation.prototype.strings;
  /**
   * @type {?} */
  SplitInterpolation.prototype.expressions;
  /**
   * @type {?} */
  SplitInterpolation.prototype.offsets;
  }
  export class TemplateBindingParseResult {
  /**
   * @param {?} templateBindings
   * @param {?} warnings
   * @param {?} errors
   * @constructor(\npublic
   * templateBindings: TemplateBinding[],
   * public warnings: string[],
   * public errors: ParserError[]) {}
  }
  function
  TemplateBindingParseResult_tsickle_Closure_declarations() {
  /**
   * @type {?}
   * */
  TemplateBindingParseResult.prototype.templateBindings;
  /**
   * @type {?}
   * */
  TemplateBindingParseResult.prototype.warnings;
  /**
   * @type {?}
   * */
  TemplateBindingParseResult.prototype.errors;
  }
  /**
   * @param {?} config
   * @return {?} */
  function
  _createInterpolateRegExp(config: InterpolationConfig): RegExp {
  const /**
   * @type {?} */
  pattern =
  escapeRegExp(config.start) + '([\\s\\S]*)' + escapeRegExp(config.end);
  return new RegExp(pattern,
  'g');
  }
  @CompilerInjectable()
  export class Parser {
  private errors: ParserError[] = [];
  /**
   * @param {?}
   * _lexer
   * @constructor(private _lexer: Lexer) {}
  /**
   * @param {?} input
   * @param {?} location
   * @param
   {?}=?} interpolationConfig
   * @return {?} */
  parseAction(\n input: string, location: any, \n
  interpolationConfig: InterpolationConfig = DEFAULT_INTERPOLATION_CONFIG): ASTWithSource {
  this._checkNoInterpolation(input, location, interpolationConfig);
  const /**
   * @type {?} */
  sourceToLex =
  this._stripComments(input);
  const /**
   * @type {?} */
  tokens =
  this._lexer.tokenize(this._stripComments(input));
  const /**
   * @type {?} */
  ast = new _ParseAST(\n
  input, location, tokens, sourceToLex.length, true, this.errors, \n
  input.length - sourceToLex.length) \n
  .parseChain();
  return new ASTWithSource(ast, input, location, this.errors);
  }
  /**
   * @param {?} input
   * @param {?} location
   * @param
   {?}=?} interpolationConfig
   * @return {?} */
  parseBinding(\n
  input: string, location: any, \n
  interpolationConfig: InterpolationConfig =
  DEFAULT_INTERPOLATION_CONFIG): ASTWithSource {
  const /**
   * @type {?} */
  ast =
  this._parseBindingAst(input, location, interpolationConfig);
  return new ASTWithSource(ast, input, location,
  this.errors);
  }
  /**
   * @param {?} input
   * @param {?} location
   * @param
   {?}=?} interpolationConfig
   * @return {?} */
  parseSimpleBinding(\n
  input: string, location: string, \n
  interpolationConfig:
  InterpolationConfig = DEFAULT_INTERPOLATION_CONFIG): ASTWithSource {
  const /**
   * @type {?} */
  ast =
  this._parseBindingAst(input, location, interpolationConfig);
  const /**
   * @type {?} */
  errors =
  SimpleExpressionChecker.check(ast);
  if (errors.length > 0) {
  this._reportError(`Host binding
  expression cannot contain ${errors.join(' ')}`, input, location);
  }
  return new ASTWithSource(ast, input,
  location, this.errors);
  }
  /**
   * @param {?} message
   * @param {?} input
   * @param
   {?} errLocation
   * @param
   {?}=?} ctxLocation
   * @return {?} */
  private _reportError(message: string, input: string, errLocation:
  string, ctxLocation?: any) {
  this.errors.push(new ParserError(message, input, errLocation, ctxLocation));
  }
  /**
   * @param {?} input
   * @param {?} location
   * @param
   {?}=?} interpolationConfig
   * @return {?} */
  private _parseBindingAst(\n
  input: string, location: string, interpolationConfig: InterpolationConfig): AST
  {
  // Quotes expressions use 3rd-party expression language. We don't want to use
  // our lexer or parser for
  that, so we check for that ahead of time.
  const /**
   * @type {?} */
  quote = this._parseQuote(input, location);
  if (isPresent(quote)) {
  return quote;
  }
  this._checkNoInterpolation(input, location,
  interpolationConfig);
  const /**
   * @type {?} */
  sourceToLex = this._stripComments(input);
  const /**
   * @type

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{?} */ tokens = this._lexer.tokenize(sourceToLex);\n  return new _ParseAST(\n      input, location, tokens,\n      sourceToLex.length, false, this.errors,\n      input.length - sourceToLex.length)\n      .parseChain();\n  }\n  /**\n   * @param {?} input\n   * @param {?} location\n   * @return {?} */\n  private _parseQuote(input: string, location: any): AST {\n    if (isBlank(input)) return null;\n    const /** @type {?} */ prefixSeparatorIndex =\n      input.indexOf(':');\n    if (prefixSeparatorIndex === -1) return null;\n    const /** @type {?} */ prefix =\n      input.substring(0, prefixSeparatorIndex).trim();\n    if (!isIdentifier(prefix)) return null;\n    const /** @type {?} */\n      uninterpretedExpression = input.substring(prefixSeparatorIndex + 1);\n    return new Quote(new ParseSpan(0,\n      input.length), prefix, uninterpretedExpression, location);\n  }\n  /**\n   * @param {?} prefixToken\n   * @param {?} input\n   * @param {?} location\n   * @return {?} */\n  private _parseTemplateBindings(prefixToken: string, input: string,\n    location: any): TemplateBindingParseResult {\n    const /** @type {?} */ tokens =\n      this._lexer.tokenize(input);\n    if (prefixToken) {\n      // Prefix the tokens with the tokens from prefixToken but\n      have them take no space (0 index).\n      const /** @type {?} */ prefixTokens =\n        this._lexer.tokenize(prefixToken).map(t => {\n          t.index = 0;\n          return t;\n        });\n      tokens.unshift(...prefixTokens);\n    }\n    return new _ParseAST(input, location, tokens, input.length, false,\n      this.errors, 0)\n      .parseTemplateBindings();\n  }\n  /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?} interpolationConfig\n   * @return {?} */\n  private _parseInterpolation(\n    input: string, location: any,\n    interpolationConfig: InterpolationConfig = DEFAULT_INTERPOLATION_CONFIG): ASTWithSource {\n    const /** @type {?} */ split = this.splitInterpolation(input, location, interpolationConfig);\n    if (split === null) return\n      null;\n    const /** @type {?} */ expressions: AST[] = [];\n    for (let /** @type {?} */ i = 0; i <\n      split.expressions.length; ++i) {\n      const /** @type {?} */ expressionText = split.expressions[i];\n      const /**\n       * @type {?} */ sourceToLex = this._stripComments(expressionText);\n      const /** @type {?} */ tokens =\n        this._lexer.tokenize(this._stripComments(split.expressions[i]));\n      const /** @type {?} */ ast = new\n        _ParseAST(\n          input, location, tokens, sourceToLex.length, false, this.errors,\n          split.offsets[i] + (expressionText.length - sourceToLex.length))\n          .parseChain();\n      expressions.push(ast);\n    }\n    return new ASTWithSource(\n      new Interpolation(\n        new ParseSpan(0,\n          isBlank(input) ? 0 : input.length), split.strings, expressions),\n      input, location, this.errors);\n  }\n  /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?} interpolationConfig\n   * @return {?} */\n  private _splitInterpolation(\n    input: string, location: string,\n    interpolationConfig: InterpolationConfig =\n      DEFAULT_INTERPOLATION_CONFIG): SplitInterpolation {\n    const /** @type {?} */ regexp =\n      _createInterpolateRegExp(interpolationConfig);\n    const /** @type {?} */ parts = input.split(regexp);\n    if\n      (parts.length <= 1) {\n      return null;\n    }\n    const /** @type {?} */ strings: string[] = [];\n    const /** @type {?} */\n      expressions: string[] = [];\n    const /** @type {?} */\n      offsets: number[] = [];\n    let /** @type {?} */\n      offset = 0;\n    for (let /** @type {?} */ i = 0; i < parts.length; i++) {\n      const /** @type {?} */ part: string = parts[i];\n      if (i\n        % 2 === 0) {\n        // fixed string\n        strings.push(part);\n        offset += part.length;\n      } else if\n        (part.trim().length > 0) {\n        offset += interpolationConfig.start.length;\n        expressions.push(part);\n        offsets.push(offset);\n        offset += part.length + interpolationConfig.end.length;\n      } else {\n        this._reportError(\n          'Blank expressions are not allowed in interpolated strings', input,\n          `at column\n          ${this._findInterpolationErrorColumn(parts, i, interpolationConfig)} in`,\n          location);\n        expressions.push('Simplicit');\n        offsets.push(offset);\n      }\n    }\n    return new SplitInterpolation(strings,\n      expressions, offsets);\n  }\n  /**\n   * @param {?} input\n   * @param {?} location\n   * @return {?} */\n  private _wrapLiteralPrimitive(input: string, location: any): ASTWithSource {\n    return new ASTWithSource(\n      new LiteralPrimitive(new ParseSpan(0, isBlank(input) ? 0 : input.length),\n        input), input, location,\n      this.errors);\n  }\n  /**\n   * @param {?} input\n   * @return {?} */\n  private _stripComments(input: string): string {\n    const /** @type {?} */ i = this._commentStart(input);\n    return isPresent(i) ? input.substring(0, i).trim() : input;\n  }\n  /**\n   * @param {?} input\n   * @return {?} */\n  private _commentStart(input: string): number {\n    let /**\n     * @type {?} */ outerQuote: number = null;\n    for (let /** @type {?} */ i = 0; i < input.length - 1; i++) {\n      const\n        /** @type {?} */ char = input.charCodeAt(i);\n      const /** @type {?} */\n        nextChar = input.charCodeAt(i + 1);\n      if (char === chars.$SLASH && nextChar == chars.$SLASH && isBlank(outerQuote))\n        return i;\n    }\n    if

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(outerQuote === char) {\n    outerQuote = null;\n    } else if (isBlank(outerQuote) && isQuote(char)) {\n
outerQuote = char;\n    }\n    }\n    return null;\n } \n/**\n * @param {?} input\n * @param {?} location\n *
@param {?} interpolationConfig\n * @return {?}\n */\nprivate _checkNoInterpolation(\n    input: string, location:
any, interpolationConfig: InterpolationConfig): void {\n    const /** @type {?} */ regexp =
_createInterpolateRegExp(interpolationConfig);\n    const /** @type {?} */ parts = input.split(regexp);\n    if
(parts.length > 1) {\n        this._reportError(\n            `Got interpolation
(${interpolationConfig.start}${interpolationConfig.end}) where expression was expected`,\n            input,\n            `at
column ${this._findInterpolationErrorColumn(parts, 1, interpolationConfig)} in`,\n            location);\n    }\n } \n/**\n
* @param {?} parts\n * @param {?} partInErrIdx\n * @param {?} interpolationConfig\n * @return {?}\n
*/\nprivate _findInterpolationErrorColumn(\n    parts: string[], partInErrIdx: number, interpolationConfig:
InterpolationConfig): number {\n    let /** @type {?} */ errLocation = ";\n    for (let /** @type {?} */ j = 0; j <
partInErrIdx; j++) {\n        errLocation += j % 2 === 0 ?\n            parts[j] :\n
`${interpolationConfig.start}${parts[j]}${interpolationConfig.end}`;\n    }\n    return errLocation.length;\n
}\n}\n\nfunction Parser_tsickle_Closure_declarations() {\n/** @type {?} */\nParser.prototype.errors;\n/** @type
{?} */\nParser.prototype._lexer;\n}\n\nexport class _ParseAST {\nprivate rparensExpected = 0;\nprivate
rbracketsExpected = 0;\nprivate rbracesExpected = 0;\n    index: number = 0;\n/**\n * @param {?} input\n *
@param {?} location\n * @param {?} tokens\n * @param {?} inputLength\n * @param {?} parseAction\n *
@param {?} errors\n * @param {?} offset\n */\nconstructor(\npublic input: string,\npublic location: any,\npublic
tokens: Token[],\npublic inputLength: number,\npublic parseAction: boolean,\nprivate errors:
ParserError[],\nprivate offset: number) {\n/**\n * @param {?} offset\n * @return {?}\n */\npeek(offset: number):
Token {\n    const /** @type {?} */ i = this.index + offset;\n    return i < this.tokens.length ? this.tokens[i] : EOF;\n
}\n/**\n * @return {?}\n */\nget next(): Token {\n    return this.peek(0);\n }\n/**\n * @return {?}\n */\nget inputIndex():
number {\n    return (this.index < this.tokens.length) ? this.next.index + this.offset :\n
this.inputLength + this.offset;\n }\n/**\n * @param {?} start\n * @return {?}\n */\nspan(start: number) {\n    return
new ParseSpan(start, this.inputIndex);\n }\n/**\n * @return {?}\n */\nadvance() {\n    this.index++;\n }\n/**\n *
@param
{?} code\n * @return {?}\n */\noptionalCharacter(code: number): boolean {\n    if (this.next.isCharacter(code)) {\n
        this.advance();\n        return true;\n    } else {\n        return false;\n    }\n }\n/**\n * @return
{?}\n */\npeekKeywordLet(): boolean {\n    return this.next.isKeywordLet();\n }\n/**\n * @param {?} code\n *
@return
{?}\n */\nexpectCharacter(code: number) {\n    if (this.optionalCharacter(code)) return;\n    this.error(`Missing expected
${String.fromCharCode(code)}`);\n }\n/**\n * @param {?} op\n * @return {?}\n */\noptionalOperator(op: string):
boolean {\n    if (this.next.isOperator(op)) {\n        this.advance();\n        return true;\n    } else {\n        return
false;\n    }\n }\n/**\n * @param {?} operator\n * @return {?}\n */\nexpectOperator(operator: string) {\n    if
(this.optionalOperator(operator)) return;\n    this.error(`Missing expected operator ${operator}`);\n }\n/**\n *
@return
{?}\n */\nexpectIdentifierOrKeyword(): string {\n    const /** @type {?} */ n = this.next;\n    if
(!n.isIdentifier() && !n.isKeyword()) {\n        this.error(`Unexpected token ${n}, expected identifier or keyword`);\n
        return ";\n    }\n    this.advance();\n    return n.toString();\n }\n/**\n * @return {?}\n */\nexpectIdentifierOrKeywordOrString(): string {\n    const /** @type {?} */ n = this.next;\n    if (!n.isIdentifier()
&& !n.isKeyword() && !n.isString()) {\n        this.error(`Unexpected token ${n}, expected identifier, keyword, or
string`);\n        return ";\n    }\n    this.advance();\n    return n.toString();\n }\n}\n\nprivate parseChain():
AST {\n    const /** @type {?} */ exprs: AST[] = [];\n    const /** @type {?} */ start = this.inputIndex;\n    while
(this.index < this.tokens.length) {\n        const /** @type {?} */ expr = this.parsePipe();\n        exprs.push(expr);\n    }\n    if (this.optionalCharacter(chars.$SEMICOLON)) {\n        if (!this.parseAction) {\n            this.error(`Binding
expression cannot contain chained expression`);\n        }\n        while (this.optionalCharacter(chars.$SEMICOLON))
{\n            } // read all semicolons\n        } else if (this.index < this.tokens.length) {\n            this.error(`Unexpected token
'${this.next}'`);\n        }\n    }\n    if (exprs.length === 0) return new EmptyExpr(this.span(start));\n    if (exprs.length
=== 1) return exprs[0];\n    return new Chain(this.span(start), exprs);\n }\n/**\n * @return {?}\n */\nparsePipe():
AST {\n    let /** @type {?} */ result = this.parseExpression();\n    if (this.optionalOperator('|')) {\n        if
(this.parseAction) {\n            this.error(`Cannot have a pipe in an action expression`);\n        }\n    }\n    do {\n        const /**

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@type {?} */ name = this.expectIdentifierOrKeyword();\n    const /** @type {?} */ args: AST[] = [];\n    while
(this.optionalCharacter(chars.$COLON)) {\n    args.push(this.parseExpression());\n    }\n    result = new
BindingPipe(this.span(result.span.start), result, name, args);\n    } while (this.optionalOperator('|'));\n    }\n\nreturn result;\n }\n\n/**\n * @return {?} */\n * ^\n * parseExpression(): AST { return this.parseConditional(); }\n\n/**\n * @return {?} */\n * ^\n * parseConditional(): AST {\n    const /** @type {?} */ start = this.inputIndex;\n    const /**
@type {?} */ result = this.parseLogicalOr();\n\n    if (this.optionalOperator('?')) {\n    const /** @type {?} */ yes =
this.parsePipe();\n    let /** @type {?} */ no: AST;\n    if (!this.optionalCharacter(chars.$COLON)) {\n    const
/** @type {?} */ end = this.inputIndex;\n    const /** @type {?} */ expression = this.input.substring(start, end);\n
    this.error(`Conditional expression ${expression} requires all 3 expressions`);\n    no = new
EmptyExpr(this.span(start));\n    } else {\n    no = this.parsePipe();\n    }\n    return new
Conditional(this.span(start), result, yes, no);\n    } else {\n    return result;\n    }\n }\n\n/**\n * ^\n * parseLogicalOr(): AST {\n    // '||'\n    let /** @type {?} */ result = this.parseLogicalAnd();\n    while
(this.optionalOperator('||')) {\n    const /** @type {?} */ right = this.parseLogicalAnd();\n    result = new
Binary(this.span(result.span.start), '||', result, right);\n    }\n    return result;\n }\n\n/**\n * ^\n * parseLogicalAnd(): AST {\n    // '&&'\n    let /** @type {?} */ result = this.parseEquality();\n    while
(this.optionalOperator('&&')) {\n    const /** @type {?} */ right = this.parseEquality();\n    result = new
Binary(this.span(result.span.start), '&&', result, right);\n    }\n    return result;\n }\n\n/**\n * ^\n * parseEquality(): AST {\n    // '==', '!=', '===', '!=='\n    let /** @type {?} */ result = this.parseRelational();\n    while (this.next.type == TokenType.Operator) {\n    const /** @type {?} */ operator = this.next.strValue;\n    switch (operator) {\n    case '==':\n    case '===':\n    case '!=':\n    case '!==':\n    this.advance();\n    const /** @type {?} */ right = this.parseRelational();\n    result = new Binary(this.span(result.span.start),
operator, result, right);\n    continue;\n    }\n    break;\n    }\n    return result;\n }\n\n/**\n * ^\n * parseRelational(): AST {\n    // '<', '>', '<=', '>='\n    let /** @type {?} */ result = this.parseAdditive();\n    while
(this.next.type == TokenType.Operator) {\n    const /** @type {?} */ operator = this.next.strValue;\n    switch
(operator) {\n    case '<':\n    case '>':\n    case '<=':\n    case '>=':\n    this.advance();\n    const /**
@type {?} */ right = this.parseAdditive();\n    result = new Binary(this.span(result.span.start), operator, result,
right);\n    continue;\n    }\n    break;\n    }\n    return result;\n }\n\n/**\n * ^\n * parseAdditive():
AST {\n    // '+', '-'\n    let /** @type {?} */ result = this.parseMultiplicative();\n    while (this.next.type ==
TokenType.Operator) {\n    const /** @type {?} */ operator = this.next.strValue;\n    switch (operator) {\n
case '+':\n    case '-':\n    this.advance();\n    let /** @type {?} */ right = this.parseMultiplicative();\n
result = new Binary(this.span(result.span.start), operator, result, right);\n    continue;\n    }\n    break;\n    }\n
return result;\n }\n\n/**\n * ^\n * parseMultiplicative(): AST {\n    // '*', '%', '/'\n    let /** @type {?} */
result = this.parsePrefix();\n    while (this.next.type == TokenType.Operator) {\n    const /** @type {?} */ operator
= this.next.strValue;\n    switch (operator) {\n    case '*':\n    case '%':\n    case '/':\n    this.advance();\n
let /** @type {?} */ right = this.parsePrefix();\n    result = new Binary(this.span(result.span.start), operator,
result, right);\n    continue;\n    }\n    break;\n    }\n    return result;\n }\n\n/**\n * ^\n * parsePrefix():
AST {\n    if (this.next.type == TokenType.Operator) {\n    const /** @type {?} */ start =
this.inputIndex;\n    const /** @type {?} */ operator = this.next.strValue;\n    let /** @type {?} */ result: AST;\n
switch (operator) {\n    case '+':\n    this.advance();\n    return this.parsePrefix();\n    case '-':\n
this.advance();\n    result = this.parsePrefix();\n    return new Binary(\n    this.span(start), operator, new
LiteralPrimitive(new ParseSpan(start, start), 0),\n    result);\n    case '!':\n    this.advance();\n    result
= this.parsePrefix();\n    return new PrefixNot(this.span(start), result);\n    }\n    }\n    return
this.parseCallChain();\n }\n\n/**\n * ^\n * parseCallChain(): AST {\n    let /** @type {?} */ result =
this.parsePrimary();\n    while (true) {\n    if (this.optionalCharacter(chars.$PERIOD)) {\n    result =
this.parseAccessMemberOrMethodCall(result, false);\n    }\n    } else if (this.optionalOperator('?.')) {\n    result =
this.parseAccessMemberOrMethodCall(result, true);\n    }\n    } else if (this.optionalCharacter(chars.$LBRACKET))
{\n    this.rbracketsExpected++;\n    const /** @type {?} */ key = this.parsePipe();\n
this.rbracketsExpected--;\n    this.expectCharacter(chars.$RBRACKET);\n    if (this.optionalOperator('=')) {\n

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const /** @type {?} */ value = this.parseConditional();\n      result = new
KeyedWrite(this.span(result.span.start), result, key, value);\n    } else {\n      result = new
KeyedRead(this.span(result.span.start), result, key);\n    }\n  } else if
(this.optionalCharacter(chars.$LPAREN)) {\n    this.rparensExpected++; \n    const /** @type {?} */ args =
this.parseCallArguments();\n    this.rparensExpected--;\n    this.expectCharacter(chars.$RPAREN);\n    result
= new FunctionCall(this.span(result.span.start), result, args);\n  } else {\n    return result;\n  }\n}\n}
\n/**\n * @return {?}\n */\n * ^\nparsePrimary(): AST {\n  const /** @type {?} */ start = this.inputIndex;\n  if
(this.optionalCharacter(chars.$LPAREN)) {\n    this.rparensExpected++; \n    const /** @type {?} */ result =
this.parsePipe();\n    this.rparensExpected--;\n    this.expectCharacter(chars.$RPAREN);\n    return result;\n  }\n}
else if (this.next.isKeywordNull()) {\n  this.advance();\n  return new LiteralPrimitive(this.span(start), null);\n}
else if (this.next.isKeywordUndefined()) {\n  this.advance();\n  return new LiteralPrimitive(this.span(start),
void 0);\n}\n} else if (this.next.isKeywordTrue()) {\n  this.advance();\n  return new
LiteralPrimitive(this.span(start), true);\n}\n} else if (this.next.isKeywordFalse()) {\n  this.advance();\n  return
new LiteralPrimitive(this.span(start), false);\n}\n} else if (this.next.isKeywordThis()) {\n  this.advance();\n
return new ImplicitReceiver(this.span(start));\n}\n} else if (this.optionalCharacter(chars.$LBRACKET)) {\n
this.rbracketsExpected++; \n    const /** @type {?} */ elements = this.parseExpressionList(chars.$RBRACKET);\n
    this.rbracketsExpected--;\n    this.expectCharacter(chars.$RBRACKET);\n    return new
LiteralArray(this.span(start), elements);\n  }\n} else if (this.next.isCharacter(chars.$LBRACE)) {\n  return
this.parseLiteralMap();\n}\n} else if (this.next.isIdentifier()) {\n  return
this.parseAccessMemberOrMethodCall(new ImplicitReceiver(this.span(start)), false);\n}\n} else if
(this.next.isNumber()) {\n  const /** @type {?} */ value = this.next.toNumber();\n  this.advance();\n  return
new LiteralPrimitive(this.span(start), value);\n}\n} else if (this.next.isString()) {\n  const /** @type {?} */
literalValue = this.next.toString();\n  this.advance();\n  return new LiteralPrimitive(this.span(start),
literalValue);\n}\n} else if (this.index >= this.tokens.length) {\n  this.error(`Unexpected end of expression:
${this.input}`);\n  return new EmptyExpr(this.span(start));\n} else {\n  this.error(`Unexpected token
${this.next}`);\n  return new EmptyExpr(this.span(start));\n}\n}\n}
\n/**\n * @param {?} terminator\n * @return
{?}\n */\n * ^\nparseExpressionList(terminator: number): AST[] {\n  const /** @type {?} */ result: AST[] = [];\n  if
(!this.next.isCharacter(terminator)) {\n    do {\n      result.push(this.parsePipe());\n    } while
(this.optionalCharacter(chars.$COMMA));\n  }\n  return result;\n}\n}
\n/**\n * @return {?}\n */\n * ^\nparseLiteralMap(): LiteralMap {\n  const /** @type {?} */ keys: string[] = [];\n  const /** @type {?} */
values: AST[] = [];\n  const /** @type {?} */ start = this.inputIndex;\n  this.expectCharacter(chars.$LBRACE);\n
if (!this.optionalCharacter(chars.$RBRACE)) {\n    this.rbracesExpected++; \n    do {\n      const /** @type {?} */
*/ key = this.expectIdentifierOrKeywordOrString();\n      keys.push(key);\n      this.expectCharacter(chars.$COLON);\n
      values.push(this.parsePipe());\n    } while
(this.optionalCharacter(chars.$COMMA));\n  }\n  this.rbracesExpected--;\n  this.expectCharacter(chars.$RBRACE);\n}
\n  return new LiteralMap(this.span(start), keys, values);\n}\n}
\n/**\n * @param {?} receiver\n * @param {=} isSafe\n * @return {?}\n */\n * ^\nparseAccessMemberOrMethodCall(receiver:
AST, isSafe: boolean = false): AST {\n  const /** @type {?} */ start = receiver.span.start;\n  const /** @type {?} */
*/ id = this.expectIdentifierOrKeyword();\n  \n  if (this.optionalCharacter(chars.$LPAREN)) {\n    this.rparensExpected++; \n
    const /** @type {?} */ args = this.parseCallArguments();\n    this.expectCharacter(chars.$RPAREN);\n    this.rparensExpected--;\n
    const /** @type {?} */ span = this.span(start);\n    return isSafe ? new SafeMethodCall(span, receiver, id, args) : \n
      new MethodCall(span, receiver, id, args);\n  } else {\n    if (isSafe) {\n      if (this.optionalOperator('=')) {\n
this.error('The `?.` operator cannot be used in the assignment');\n      return new EmptyExpr(this.span(start));\n
    } else {\n      return new SafePropertyRead(this.span(start), receiver, id);\n    } \n  } else {\n    if
(this.optionalOperator('=')) {\n      if (!this.parseAction) {\n        this.error('Bindings cannot contain
assignments');\n        return new EmptyExpr(this.span(start));\n      }\n    }\n    const /** @type {?} */ value =
this.parseConditional();\n    return new PropertyWrite(this.span(start), receiver, id, value);\n  } else {\n

```





```

    {} \n/** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n * \nvisitSafePropertyRead(ast:
SafePropertyRead, context: any) {} \n/** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n
* \nvisitMethodCall(ast: MethodCall, context: any) {} \n/** \n * @param {?} ast \n * @param {?} context \n *
@return {?} \n * \nvisitSafeMethodCall(ast: SafeMethodCall, context: any) {} \n/** \n * @param {?} ast \n *
@param {?} context \n * @return {?} \n * \nvisitFunctionCall(ast: FunctionCall, context: any) {} \n/** \n *
@param {?} ast \n * @param {?} context \n * @return {?} \n * \nvisitLiteralArray(ast: LiteralArray, context: any) {
this.visitAll(ast.expressions); } \n/** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n
* \nvisitLiteralMap(ast: LiteralMap, context: any) { this.visitAll(ast.values); } \n/** \n * @param {?} ast \n *
@param {?} context \n * @return {?} \n * \nvisitBinary(ast: Binary, context: any) {} \n/** \n * @param {?} ast \n *
@param {?} context \n * @return {?} \n * \nvisitPrefixNot(ast: PrefixNot, context: any) {} \n/** \n * @param {?}
ast \n * @param {?} context \n * @return {?} \n * \nvisitConditional(ast: Conditional, context: any) {} \n/** \n *
@param {?} ast \n * @param {?} context \n * @return {?} \n * \nvisitPipe(ast: BindingPipe, context: any) {
this.errors.push('pipes'); } \n/** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n
* \nvisitKeyedRead(ast: KeyedRead, context: any) {} \n/** \n * @param {?} ast \n * @param {?} context \n *
@return {?} \n * \nvisitKeyedWrite(ast: KeyedWrite, context: any) {} \n/** \n * @param {?} ast \n * @return {?} \n
* \nvisitAll(asts: any[]): any[] { return asts.map(node => node.visit(this)); } \n/** \n * @param {?} ast \n *
@param {?} context \n * @return {?} \n * \nvisitChain(ast: Chain, context: any) {} \n/** \n * @param {?} ast \n *
@param {?} context \n * @return {?} \n * \nvisitQuote(ast: Quote, context: any) {} \n} \n \nfunction
SimpleExpressionChecker_tsickle_Closure_declarations() { \n /** @type {?}
* \n SimpleExpressionChecker.prototype.errors; \n} \n \n \ninterface DecoratorInvocation { \n type: Function; \n
args?: any[]; \n} \n}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/expression\_parser/parser.js.map

No license file was found, but licenses were detected in source scan.

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AC,IAAI;oBACpB,OAAO,GAAG,MAAM,CAAC;oBACjB,KAAK,CAAC;gBACR,KAAK,CAAC,CAAC,UAAU,  
CAAC,UAAU;oBACIB,OAAO,GAAG,eAAe,CAAC,IAAI,CAAC;oBAC/B,KAAK,CAAC;gBACR,KAAK,CAA  
C,CAAC,UAAU,CAAC,UAAU;oBAC1B,OAAO,GAAG,eAAe,CAAC,IAAI,CAAC;oBAC/B,KAAK,CAAC;gBA  
CR;oBACE,MAAM,IAAI,KAAK,CAAC,8BAA4B,GAAG,CAAC,OAAS,CAAC,CAAC;YAC/D,CAAC;QACH,C  
AAC;QACD,GAAG,CAAC,KAAK,CAAC,OAAO,CAAC,CAAC;QACnB,MAAM,CAAC,IAAI,CAAC;IACd,CA  
AC;IACH;;;;OAIg;IACH,qDAaOB,GAAPb,UAAqB,GAAsB,EAAE,GAA0B;QACnE,GAAG,CAAC,KAAK,CA  
AC,MAAM,CAAC,CAAC;QACIB,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;

QACzC,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,IAAI,CAAC,mBAAmB,CAAC,GAAG,CAAC,IAAI,EAAE,GAAG,EAAE,GAAG,CAAC,CAAC;QAC7C,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;;OAIg;IACH,iDAAGB,GAAhB,UAAiB,GAAkB,EAAE,GAA0B;QAC3D,IAAM,gBAAGB,CAAC,KAAK,GAAG,GAAG,CAAC,KAAK,CAAC;QACzC,EAAE,CAAC,CAAC,CAA0,CAAC,KAAK,CAAC,QAAQ,CAAC,CAAC,CAAC;YAC9B,GAAG,CAAC,KAAK,CAAC,gBAAGB,CAAC,KAAK,EAAE,IAAI,CAAC,sBAAsB,CAAC,CAAC,CAAC;QACIE,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,GAAAG,CAAC,KAAK,CAAC,KAAG,KAAO,CAAC,CAAC;QACxB,CAAC;QACD,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;;OAKG;IACH,kDAAiB,GAAjB,UAAkB,GAAmB,EAAE,GAA0B,IAAG,CAAC;IACrE;;;;OAIg;IACH,qDAAoB,GAApB,UAAqB,GAAsB,EAAE,GAA0B;QACnE,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACzC,GAAG,CAAC,KAAK,CAAC,IAAI,CAAC,CAAC;QACb,GAAG,CAAC,QAAQ,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACxC,GAAG,CAAC,KAAK,CAAC,IAAI,CAAC,CAAC;QACb,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACzC,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;;OAIg;IACH,6CAAY,GAAZ,UAAa,GAAc,EAAE,GAA0B;QACnD,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACzC,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;;OAKG;IACH,kDAAiB,GAAjB,UAAkB,GAAmB,EAAE,GAA0B,IAAG,CAAC;IACrE;;;;OAKG;IACH,yDAAwB,GAAxB,UAAyB,IAA2B,EAAE,OAAy,IAAG,CAAC;IACtE;;;;OAIg;IACH,wDAAuB,GAAvB,UAAwB,GAAyB,EAAE,GAA0B;QACzE,IAAI,gBAAGB,CAAC,KAAa,CAAC;QACnC,MAAM,CAAC,CAAC,GAAG,CAAC,QAAQ,CAAC,CAAC,CAAC;YACrB,KAAK,CAAC,CAAC,cAAc,CAAC,MAAM;gBAC1B,KAAK,GAAG,IAAI,CAAC;gBACb,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,SAAS;gBAC7B,KAAK,GAAG,KAAK,CAAC;gBACd,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,SAAS;gBAC7B,KAAK,GAAG,IAAI,CAAC;gBACb,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,YAAY;gBACbC,KAAK,GAAG,KAAK,CAAC;gBACd,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,GAAG;gBACvB,KAAK,GAAG,IAAI,CAAC;gBACb,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,EAAE;gBACtB,KAAK,GAAG,IAAI,CAAC;gBACb,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,IAAI;gBACxB,KAAK,GAAG,GAAG,CAAC;gBACZ,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,KAAK;gBACzB,KAAK,GAAG,GAAG,CAAC;gBACZ,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,MAAM;gBAC1B,KAAK,GAAG,GAAG,CAAC;gBACZ,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,KAAK;gBACzB,KAAK,GAAG,GAAG,CAAC;gBACZ,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,WAAW;gBAC/B,KAAK,GAAG,IAAI,CAAC;gBACb,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,MAAM;gBAC1B,KAAK,GAAG,GAAG,CAAC;gBACZ,KAAK,CAAC;YACr,KAAK,CAAC,CAAC,cAAc,CAAC,YAAY;gBACbC,KAAK,GAAG,IAAI,CAAC;gBACb,KAAK,CAAC;YACr;gBACE,MAAM,IAAI,KAAK,CAAC,sBAAoB,GAAG,CAAC,QAAU,CAAC,CAAC;QACxD,CAAC;QACD,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,GAAG,CAAC,GAAG,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACnC,GAAG,CAAC,KAAK,CAAC,MAAI,KAAK,MAAG,CAAC,CAAC;QACxB,GAAG,CAAC,GAAG,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACnC,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;;OAIg;IACH,kDAAiB,GAAjB,UAAkB,GAAmB,EAAE,GAA0B;QAC7D,GAAG,CAAC,QAAQ,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACxC,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,IAAI,CAAC,CAAC;QACpB,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;;OAIg;IACH,iDAAGB,GAAhB,UAAiB,GAAkB,EAAE,GAA0B;QAC3D,GAAG,CAAC,QAAQ,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACxC,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,GAAG,CAAC,KAAK,CAAC,eAAe,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;QACrC,GAAG,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC;QACf,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;;OAIg;IACH,sDAAqB,GAArB,UAAsB,GAAuB,EAAE,GAA0B;QACrE,IAAM,gBAAGB,CAAC,UAAU,GAAG,GAAG,CAAC,CAA0,CAAC,MAAM,GAAG,CAAC,CAAC;QAC3D,GAAG,CAAC,KAAK,CAAC,GAAG,EAAE,UAAU,CAAC,CAAC;QAC3B,GAAG,CAAC,



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_EmittedLine_tsickle_Closure_declarations() {\n/** @type {?} *\n_EmittedLine.prototype.parts;\n/** @type {?}
*\n_EmittedLine.prototype.indent;\n}\n\n\nexport class EmitterVisitorContext {\n/**\n * @param {?}
exportedVars\n * @return {?} *\nstatic createRoot(exportedVars: string[]): EmitterVisitorContext {\n return
new EmitterVisitorContext(exportedVars, 0);\n }\nprivate _lines: _EmittedLine[];\nprivate _classes: o.ClassStmt[]
= [];\n/**\n * @param {?} _exportedVars\n * @param {?} _indent\n *\nconstructor(private _exportedVars:
string[],\nprivate _indent: number) {\n this._lines = [new _EmittedLine(_indent)];\n }\n/**\n * @return {?} *\n
*\nprivate get _currentLine(): _EmittedLine { return this._lines[this._lines.length - 1]; }\n/**\n * @param {?}
varName\n * @return {?} *\n*\nisExportedVar(varName: string): boolean { return
this._exportedVars.indexOf(varName) !== -1; }\n/**\n * @param {?=} lastPart\n * @return {?} *\n
*\nprintln(lastPart: string = "): void { this.print(lastPart, true); }\n/**\n * @return {?} *\n*\nlineIsEmpty(): boolean
{ return this._currentLine.parts.length === 0; }\n/**\n * @param {?} part\n * @param {?=} newLine\n * @return
{?} *\n*\nprint(part: string, newLine: boolean = false) {\n if (part.length > 0) {\n
this._currentLine.parts.push(part);\n }\n if (newLine) {\n this._lines.push(new _EmittedLine(this._indent));\n
}\n }\n/**\n * @return {?} *\n*\nremoveEmptyLastLine() {\n if (this.lineIsEmpty()) {\n this._lines.pop();\n
}\n }\n/**\n * @return {?} *\n*\nincIndent() {\n this._indent++;\n this._currentLine.indent = this._indent;\n
}\n/**\n * @return {?} *\n*\ndecIndent() {\n this._indent--;\n this._currentLine.indent = this._indent;\n }\n/**\n
* @param {?} clazz\n * @return {?} *\n*\npushClass(clazz: o.ClassStmt) { this._classes.push(clazz); }\n/**\n *
@return {?} *\n*\npopClass(): o.ClassStmt { return this._classes.pop(); }\n/**\n * @return {?} *\n*\nget
currentClass(): o.ClassStmt {\n return this._classes.length > 0 ? this._classes[this._classes.length - 1] : null;\n
}\n/**\n * @return {?} *\n*\ntoSource(): any {\n let /** @type {?} */ lines = this._lines;\n if (lines[lines.length -
1].parts.length === 0) {\n lines = lines.slice(0, lines.length - 1);\n }\n return lines\n .map((line) => {\n
if (line.parts.length > 0) {\n return _createIndent(line.indent) + line.parts.join("");\n } else {\n
return ";\n }\n })\n .join("\\n");\n }\n\nfunction
EmitterVisitorContext_tsickle_Closure_declarations() {\n/** @type {?}
*\nEmitterVisitorContext.prototype._lines;\n/** @type {?} *\nEmitterVisitorContext.prototype._classes;\n/**
@type {?} *\nEmitterVisitorContext.prototype._exportedVars;\n/** @type {?}
*\nEmitterVisitorContext.prototype._indent;\n}\n\n\n/**\n * @abstract\n *\nexport abstract class
AbstractEmitterVisitor implements o.StatementVisitor, o.ExpressionVisitor {\n/**\n * @param {?}
_escapeDollarInStrings\n *\nconstructor(private _escapeDollarInStrings: boolean) {\n/**\n * @param {?} stmt\n
* @param {?} ctx\n * @return {?} *\n*\nvisitExpressionStmt(stmt: o.ExpressionStatement, ctx:
EmitterVisitorContext): any {\n stmt.expr.visitExpression(this, ctx);\n ctx.println(';');\n return null;\n }\n/**
* @param {?} stmt\n * @param {?} ctx\n * @return {?} *\n*\nvisitReturnStmt(stmt: o.ReturnStatement, ctx:
EmitterVisitorContext): any {\n ctx.print(`return `);\n stmt.value.visitExpression(this, ctx);\n ctx.println(';');\n
return null;\n }\n/**\n * @abstract\n * @param {?} ast\n * @param {?} context\n * @return {?} *\n
*\nvisitCastExpr(ast: o.CastExpr, context: any) {\n/**\n * @abstract\n * @param {?} stmt\n * @param {?} ctx\n
* @return {?} *\n*\nvisitDeclareClassStmt(stmt: o.ClassStmt, ctx: EmitterVisitorContext) {\n/**\n * @param {?}
stmt\n * @param {?} ctx\n * @return {?} *\n*\nvisitIfStmt(stmt: o.IfStmt, ctx: EmitterVisitorContext): any {\n
ctx.print(`if (`);\n stmt.condition.visitExpression(this, ctx);\n ctx.print(`)`);\n const /** @type {?} */
hasElseCase = isPresent(stmt.falseCase) && stmt.falseCase.length > 0;\n if (stmt.trueCase.length <= 1 &&
!hasElseCase) {\n ctx.print(``);\n this.visitAllStatements(stmt.trueCase, ctx);\n
ctx.removeEmptyLastLine();\n ctx.print(``);\n } else {\n ctx.println();\n ctx.incIndent();\n
this.visitAllStatements(stmt.trueCase, ctx);\n ctx.decIndent();\n if (hasElseCase) {\n ctx.println(``);
else {\n ctx.incIndent();\n this.visitAllStatements(stmt.falseCase, ctx);\n ctx.decIndent();\n }\n }\n
ctx.println(``);\n return null;\n }\n/**\n * @abstract\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} *\n
*\nvisitTryCatchStmt(stmt: o.TryCatchStmt, ctx: EmitterVisitorContext) {\n/**\n * @param {?} stmt\n * @param
{=} ctx\n * @return {?} *\n*\nvisitThrowStmt(stmt: o.ThrowStmt, ctx: EmitterVisitorContext): any {\n
ctx.print(`throw `);\n stmt.error.visitExpression(this, ctx);\n ctx.println(``);\n return null;\n }\n/**\n *
@param {?} stmt\n * @param {?} ctx\n * @return {?} *\n*\nvisitCommentStmt(stmt: o.CommentStmt, ctx:

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EmitterVisitorContext): any {\n  const /** @type {?} */ lines = stmt.comment.split('\n');\n  lines.forEach((line)
=> { ctx.println(` ${line}`); });\n  return null;\n }\n/**\n * @abstract\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *\nvisitDeclareVarStmt(stmt: o.DeclareVarStmt, ctx: EmitterVisitorContext) {} \n/**\n * @param
{?} expr\n * @param {?} ctx\n * @return {?} */\n *\nvisitWriteVarExpr(expr: o.WriteVarExpr, ctx:
EmitterVisitorContext): any {\n  const /** @type {?} */ lineWasEmpty = ctx.lineIsEmpty();\n  if
(!lineWasEmpty) {\n    ctx.print('(');\n    }\n    ctx.print(`${expr.name} =`);\n    expr.value.visitExpression(this,
ctx);\n    if (!lineWasEmpty) {\n      ctx.print(');\n      }\n      return null;\n    }\n    /**\n * @param {?} expr\n * @param
{?} ctx\n * @return {?} */\n *\nvisitWriteKeyExpr(expr: o.WriteKeyExpr, ctx: EmitterVisitorContext): any {\n
const /** @type {?} */ lineWasEmpty = ctx.lineIsEmpty();\n  if (!lineWasEmpty) {\n    ctx.print('(');\n    }\n
    expr.receiver.visitExpression(this, ctx);\n    ctx.print '[');\n    expr.index.visitExpression(this, ctx);\n    ctx.print('=
`);\n    expr.value.visitExpression(this, ctx);\n    if (!lineWasEmpty) {\n      ctx.print(');\n      }\n      return null;\n
    }\n    /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?} */\n *\nvisitWritePropExpr(expr: o.WritePropExpr,
ctx: EmitterVisitorContext): any {\n  const /** @type {?} */ lineWasEmpty = ctx.lineIsEmpty();\n  if
(!lineWasEmpty) {\n    ctx.print('(');\n    }\n    expr.receiver.visitExpression(this, ctx);\n    ctx.print(`.${expr.name}
`);\n    expr.value.visitExpression(this, ctx);\n    if (!lineWasEmpty) {\n      ctx.print(');\n      }\n      return null;\n
    }\n    /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?} */\n *\nvisitInvokeMethodExpr(expr:
o.InvokeMethodExpr, ctx: EmitterVisitorContext): any {\n  expr.receiver.visitExpression(this, ctx);\n  let /**
@type {?} */ name = expr.name;\n  if (isPresent(expr.builtin)) {\n    name =
this.getBuiltinMethodName(expr.builtin);\n    if (isBlank(name)) {\n      // some builtins just mean to skip the
call.\n      return null;\n    }\n    }\n    ctx.print(`.${name}(`);\n    this.visitAllExpressions(expr.args, ctx, ` `);\n
    ctx.print(`)`);\n    return null;\n  }\n  /**\n * @abstract\n * @param {?} method\n * @return {?} */\n
*\ngetBuiltinMethodName(method: o.BuiltinMethod) {} \n/**\n * @param {?} expr\n * @param {?} ctx\n *
@return {?} */\n *\nvisitInvokeFunctionExpr(expr: o.InvokeFunctionExpr, ctx: EmitterVisitorContext): any {\n
expr.fn.visitExpression(this, ctx);\n  ctx.print(`(`);\n  this.visitAllExpressions(expr.args, ctx, ` `);\n
  ctx.print(`)`);\n  return null;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n
*\nvisitReadVarExpr(ast: o.ReadVarExpr, ctx: EmitterVisitorContext): any {\n  let /** @type {?} */ varName =
ast.name;\n  if (isPresent(ast.builtin)) {\n    switch (ast.builtin) {\n      case o.BuiltinVar.Super:\n        varName
= 'super';\n        break;\n      case o.BuiltinVar.This:\n        varName = 'this';\n        break;\n      case
o.BuiltinVar.CatchError:\n        varName = CATCH_ERROR_VAR.name;\n        break;\n      case
o.BuiltinVar.CatchStack:\n        varName = CATCH_STACK_VAR.name;\n        break;\n      default:\n        throw new Error(`Unknown builtin variable ${ast.builtin}`);\n    }\n    }\n    ctx.print(varName);\n    return null;\n
  }\n  /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitInstantiateExpr(ast: o.InstantiateExpr,
ctx: EmitterVisitorContext): any {\n  ctx.print(`new`);\n  ast.classExpr.visitExpression(this, ctx);\n
  ctx.print(` `);\n  this.visitAllExpressions(ast.args, ctx, ` `);\n  ctx.print(`)`);\n  return null;\n }\n/**\n * @param
{?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitLiteralExpr(ast: o.LiteralExpr, ctx: EmitterVisitorContext):
any {\n  const /** @type {?} */ value = ast.value;\n  if (typeof value === 'string') {\n
  ctx.print(escapeIdentifier(value, this._escapeDollarInStrings));\n  } else {\n    ctx.print(`${value}`);\n  }\n
  return null;\n }\n/**\n * @abstract\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n
*\nvisitExternalExpr(ast: o.ExternalExpr, ctx: EmitterVisitorContext) {} \n/**\n * @param {?} ast\n * @param {?}
ctx\n * @return {?} */\n *\nvisitConditionalExpr(ast: o.ConditionalExpr, ctx: EmitterVisitorContext): any {\n
  ctx.print(`(`);\n  ast.condition.visitExpression(this, ctx);\n  ctx.print(` ? `);\n  ast.trueCase.visitExpression(this,
ctx);\n  ctx.print(` `);\n  ast.falseCase.visitExpression(this, ctx);\n  ctx.print(`)`);\n  return null;\n }\n/**\n *
@param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitNotExpr(ast: o.NotExpr, ctx:
EmitterVisitorContext): any {\n  ctx.print(`!`);\n  ast.condition.visitExpression(this, ctx);\n  return null;\n
  }\n  /**\n * @abstract\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitFunctionExpr(ast:
o.FunctionExpr, ctx: EmitterVisitorContext) {} \n/**\n * @abstract\n * @param {?} stmt\n * @param {?} context\n *
@return {?} */\n *\nvisitDeclareFunctionStmt(stmt: o.DeclareFunctionStmt, context: any) {} \n/**\n * @param {?}
ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitBinaryOperatorExpr(ast: o.BinaryOperatorExpr, ctx:

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/abstract\_emitter.js.map  
No license file was found, but licenses were detected in source scan.

```
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```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/facade/errors.js.map

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@license\n \*  
Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that  
can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\nimport {DirectiveResolver} from  
'@angular/compiler';\nimport {AnimationEntryMetadata, Compiler, Component, Directive, Injectable, Injector,  
Provider, Type, resolveForwardRef} from '@angular/core';\nimport {isPresent} from './facade/lang';\nimport  
{ViewMetadata} from './private\_import\_core';\n\n\n/\*\n \* An implementation of {@link DirectiveResolver} that  
allows overriding\n \* various properties of directives.\n \*/\n\nexport class MockDirectiveResolver extends  
DirectiveResolver {\n private \_directives = new Map<Type<any>, Directive>();\n private \_providerOverrides =  
new Map<Type<any>, any[]>();\n private \_viewProviderOverrides = new Map<Type<any>, any[]>();\n private  
\_views = new Map<Type<any>, ViewMetadata>();\n private \_inlineTemplates = new Map<Type<any>,  
string>();\n private \_animations = new Map<Type<any>, AnimationEntryMetadata[]>();\n\n constructor(private  
\_injector: Injector) { super(); }\n\n private get \_compiler(): Compiler { return this.\_injector.get(Compiler); }\n\n  
private \_clearCacheFor(component: Type<any>) { this.\_compiler.clearCacheFor(component); }\n\n resolve(type:  
Type<any>, throwIfNotFound = true): Directive {\n let metadata = this.\_directives.get(type);\n if (!metadata) {\n  
metadata = super.resolve(type, throwIfNotFound);\n }\n if (!metadata) {\n return null;\n }\n\n const  
providerOverrides = this.\_providerOverrides.get(type);\n const viewProviderOverrides =  
this.\_viewProviderOverrides.get(type);\n\n let providers = metadata.providers;\n if  
(isPresent(providerOverrides)) {\n const originalViewProviders: Provider[] = metadata.providers || [];\n  
providers = originalViewProviders.concat(providerOverrides);\n }\n\n if (metadata instanceof Component) {\n  
let viewProviders = metadata.viewProviders;\n if (isPresent(viewProviderOverrides)) {\n const  
originalViewProviders: Provider[] = metadata.viewProviders || [];\n viewProviders =  
originalViewProviders.concat(viewProviderOverrides);\n }\n\n let view = this.\_views.get(type);\n if  
(!view) {\n view = <any>metadata;\n }\n\n let animations = view.animations;\n let templateUrl =  
view.templateUrl;\n\n const inlineAnimations = this.\_animations.get(type);\n if (isPresent(inlineAnimations))  
{\n animations = inlineAnimations;\n }\n\n let inlineTemplate = this.\_inlineTemplates.get(type);\n if  
(isPresent(inlineTemplate)) {\n templateUrl = null;\n } else {\n inlineTemplate = view.template;\n  
}\n\n return new Component({\n selector: metadata.selector,\n inputs: metadata.inputs,\n outputs:  
metadata.outputs,\n host: metadata.host,\n exportAs: metadata.exportAs,\n moduleId:  
metadata.moduleId,\n queries: metadata.queries,\n changeDetection: metadata.changeDetection,\n  
providers: providers,\n viewProviders: viewProviders,\n entryComponents: metadata.entryComponents,\n  
template: inlineTemplate,\n templateUrl: templateUrl,\n animations: animations,\n styles:  
view.styles,\n styleUrls: view.styleUrls,\n encapsulation: view.encapsulation,\n interpolation:

```

view.interpolation\n  });\n  }\n\n  return new Directive({\n    selector: metadata.selector,\n    inputs:
metadata.inputs,\n    outputs: metadata.outputs,\n    host: metadata.host,\n    providers: providers,\n    exportAs:
metadata.exportAs,\n    queries: metadata.queries\n  });\n  }\n\n  /**\n   * Overrides the {@link Directive} for a
directive.\n   *\n   * @param {Type<any>} type\n   * @param {Directive} metadata\n   * @return {void}\n   */\n  setDirective(type: Type<any>, metadata: Directive): void {\n    this._directives.set(type,
metadata);\n    this._clearCacheFor(type);\n  }\n\n  setProvidersOverride(type: Type<any>, providers: Provider[]):
void {\n    this._providerOverrides.set(type, providers);\n    this._clearCacheFor(type);\n  }\n\n  setViewProvidersOverride(type: Type<any>, viewProviders: Provider[]): void {\n
this._viewProviderOverrides.set(type, viewProviders);\n    this._clearCacheFor(type);\n  }\n\n  /**\n   * Overrides
the {@link ViewMetadata} for a component.\n   *\n   * @param {Type<any>} component\n   * @param {ViewMetadata} view\n   * @return {void}\n   */\n  setView(component: Type<any>, view: ViewMetadata): void
{\n    this._views.set(component, view);\n    this._clearCacheFor(component);\n  }\n\n  /**\n   * Overrides the inline
template for a component - other configuration remains unchanged.\n   *\n   * @param {Type<any>} component\n   * @param {string} template\n   * @return {void}\n   */\n  setInlineTemplate(component:
Type<any>, template: string): void {\n    this._inlineTemplates.set(component, template);\n    this._clearCacheFor(component);\n  }\n\n  setAnimations(component: Type<any>, animations:
AnimationEntryMetadata[]): void {\n    this._animations.set(component, animations);\n    this._clearCacheFor(component);\n  }\n\n  static decorators: DecoratorInvocation[] = [\n    { type: Injectable },\n  ];\n\n  /**
   * @nocollapse\n   * @static ctorParameters: () => ({type: any, decorators?: DecoratorInvocation[]})\n   * @return {() =>
({type: Injector, },\n)}\n\n  function flattenArray(tree: any[], out: Array<Type<any>|any[]>): void {\n    if
(!isPresent(tree)) return;\n    for (let i = 0; i < tree.length; i++) {\n      const item = resolveForwardRef(tree[i]);\n      if
(Array.isArray(item)) {\n        flattenArray(item, out);\n      } else {\n        out.push(item);\n      }\n    }\n  }\n\n  interface
DecoratorInvocation {\n    type: Function;\n    args?: any[];\n  }\n}

```

Found in path(s):

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
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@license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n *\n\n\nimport * as o from './output_ast';\n/**\n *
Create a new class stmts based on the given data.\n * @param {?} config\n * @return {?} */\n\nexport function

```

```

createClassStmt(config: {\n name: string,\n parent?: o.Expression,\n parentArgs?: o.Expression[],\n ctorParams?:
o.FnParam[],\n builders: ClassBuilderPart | ClassBuilderPart[], modifiers?: o.StmtModifier[]\n}): o.ClassStmt {\n
const /** @type {?} */ parentArgs = config.parentArgs || [];\n const /** @type {?} */ superCtorStmts =
config.parent ? [o.SUPER_EXPR.callFn(parentArgs).toStmt()]: [];\n const /** @type {?} */ builder =\n
concatClassBuilderParts(Array.isArray(config.builders) ? config.builders : [config.builders]);\n const /** @type
{?} */ ctor =\n new o.ClassMethod(null, config.ctorParams || [], superCtorStmts.concat(builder.ctorStmts));\n
return new o.ClassStmt(\n config.name, config.parent, builder.fields, builder.getters, ctor, builder.methods,\n
config.modifiers || []);\n}\n\n/**\n * @param {?} builders\n * @return {?} */\n *\/\nfunction
concatClassBuilderParts(builders: ClassBuilderPart[]) {\n return {\n fields: [].concat(...builders.map(builder =>
builder.fields || [])),\n methods: [].concat(...builders.map(builder => builder.methods || [])),\n getters:
[].concat(...builders.map(builder => builder.getters || [])),\n ctorStmts: [].concat(...builders.map(builder =>
builder.ctorStmts || [])),\n };;\n}\n\n/**\n * Collects data for a generated class.\n *\/\nexport interface
ClassBuilderPart {\n fields?: o.ClassField[];\n methods?: o.ClassMethod[];\n getters?: o.ClassGetter[];\n
ctorStmts?: o.Statement[];\n}\n\n/**\n * Collects data for a generated class.\n *\/\nexport interface ClassBuilder {\n
fields: o.ClassField[];\n methods: o.ClassMethod[];\n getters: o.ClassGetter[];\n ctorStmts:
o.Statement[];\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/class\_builder.js.map

No license file was found, but licenses were detected in source scan.

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```

*\nExpansionCase.prototype.expSourceSpan;\n}\n\n\nexport class Attribute implements Node {\n/**\n * @param
{?} name\n * @param {?} value\n * @param {?} sourceSpan\n * @param {?=} valueSpan\n
*\nconstructor(\npublic name: string,\npublic value: string,\npublic sourceSpan: ParseSourceSpan,\npublic
valueSpan?: ParseSourceSpan) {\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n
*\nvisit(visitor: Visitor, context: any): any { return visitor.visitAttribute(this, context); }\n}\n\nfunction
Attribute_tsickle_Closure_declarations() {\n/** @type {?} */ *\nAttribute.prototype.name;\n/** @type {?}
*\nAttribute.prototype.value;\n/** @type {?} */ *\nAttribute.prototype.sourceSpan;\n/** @type {?}
*\nAttribute.prototype.valueSpan;\n}\n\n\nexport class Element implements Node {\n/**\n * @param {?} name\n *
@param {?} attrs\n * @param {?} children\n * @param {?} sourceSpan\n * @param {?} startSourceSpan\n *
@param {?} endSourceSpan\n *\nconstructor(\npublic name: string,\npublic attrs: Attribute[],\npublic children:
Node[],\npublic sourceSpan: ParseSourceSpan,\npublic startSourceSpan: ParseSourceSpan,\npublic endSourceSpan:
ParseSourceSpan) {\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor:
Visitor, context: any): any { return visitor.visitElement(this, context); }\n}\n\nfunction
Element_tsickle_Closure_declarations() {\n/** @type {?} */ *\nElement.prototype.name;\n/** @type {?}
*\nElement.prototype.attrs;\n/** @type {?} */ *\nElement.prototype.children;\n/** @type {?}
*\nElement.prototype.sourceSpan;\n/** @type {?} */ *\nElement.prototype.startSourceSpan;\n/** @type {?}
*\nElement.prototype.endSourceSpan;\n}\n\n\nexport class Comment implements Node {\n/**\n * @param {?}
value\n * @param {?} sourceSpan\n *\nconstructor(public value: string,\npublic sourceSpan: ParseSourceSpan)
{\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: Visitor, context: any):
any { return visitor.visitComment(this, context); }\n}\n\nfunction Comment_tsickle_Closure_declarations() {\n/**
@type {?} */ *\nComment.prototype.value;\n/** @type {?} */ *\nComment.prototype.sourceSpan;\n}\n\n\nexport
interface Visitor {\n // Returning a truthy value from `visit()` will prevent `visitAll()` from the call to the typed\n //
method and result returned will become the result included in `visitAll()`'s result array.\n visit?(node: Node, context:
any): any;\n visitElement(element: Element, context: any): any;\n visitAttribute(attribute: Attribute, context:
any): any;\n visitText(text: Text, context: any): any;\n visitComment(comment: Comment, context: any): any;\n
visitExpansion(expansion: Expansion, context: any): any;\n visitExpansionCase(expansionCase: ExpansionCase,
context: any): any;\n}\n/**\n * @param {?} visitor\n * @param {?} nodes\n * @param {?=} context\n * @return
{?}\n *\nexport function visitAll(visitor: Visitor, nodes: Node[], context: any = null): any[] {\n const /** @type
{?} */ result: any[] = [];\n\n const /** @type {?} */ visit = visitor.visit ?\n (ast: Node) => visitor.visit(ast,
context) || ast.visit(visitor, context) : \n (ast: Node) => ast.visit(visitor, context);\n nodes.forEach(ast => {\n
const /** @type {?} */ astResult = visit(ast);\n if (astResult) {\n result.push(astResult);\n }\n });\n return
result;\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/ast.js.map

No license file was found, but licenses were detected in source scan.

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Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\nimport {HtmlParser} from './ml_parser/html_parser';\nimport
{InterpolationConfig} from './ml_parser/interpolation_config';\nimport {ParseError} from './parse_util';\nimport
{extractMessages} from './extractor_merger';\nimport {Message} from './i18n_ast';\nimport {Serializer} from
 './serializers/serializer';\n/**\n * A container for message extracted from the templates.\n */\nexport class
MessageBundle {\nprivate _messages: Message[] = [];\n/**\n * @param {?} _htmlParser\n * @param {?}
_implicitTags\n * @param {?} _implicitAttrs\n */\nconstructor(\nprivate _htmlParser: HtmlParser,\nprivate
_implicitTags: string[],\nprivate _implicitAttrs: {[k: string]: string[]}) {\n/**\n * @param {?} html\n * @param
{?} url\n * @param {?} interpolationConfig\n * @return {?}\n */\nupdateFromTemplate(html: string, url: string,
interpolationConfig: InterpolationConfig):\n ParseError[] {\n const /** @type {?} */ htmlParserResult =
this._htmlParser.parse(html, url, true, interpolationConfig);\n\n if (htmlParserResult.errors.length) {\n return
htmlParserResult.errors;\n }\n\n const /** @type {?} */ i18nParserResult = extractMessages(\n
htmlParserResult.rootNodes, interpolationConfig, this._implicitTags, this._implicitAttrs);\n\n if
(i18nParserResult.errors.length) {\n return i18nParserResult.errors;\n }\n\n
this._messages.push(...i18nParserResult.messages);\n }\n/**\n * @return {?}\n */\ngetMessages(): Message[] {\
return this._messages; }\n/**\n * @param {?} serializer\n * @return {?}\n */\nwrite(serializer: Serializer): string {\
return serializer.write(this._messages); }\n}\n\nfunction MessageBundle_tsickle_Closure_declarations() {\n /**
@type {?} */\nMessageBundle.prototype._messages;\n /** @type {?} */\nMessageBundle.prototype._htmlParser;\n
/** @type {?} */\nMessageBundle.prototype._implicitTags;\n /** @type {?} */\nMessageBundle.prototype._implicitAttrs;\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?:
any[];\n}\n"}

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/message\_bundle.js.map  
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class ViewProperties {\n  static renderer = o.THIS_EXPR.prop('renderer');\n  static viewUtils =
o.THIS_EXPR.prop('viewUtils');\n}\n\n\nfunction ViewProperties_tsickle_Closure_declarations() {\n  /** @type {?}
*/\n  *^nViewProperties.renderer;\n  /** @type {?} */\n  *^nViewProperties.viewUtils;\n}\n\n\n\nexport class
InjectMethodVars {\n  static token = o.variable('token');\n  static requestNodeIndex =
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InjectMethodVars_tsickle_Closure_declarations() {\n  /** @type {?} */\n  *^nInjectMethodVars.token;\n  /** @type {?}
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class DetectChangesVars {\n  static throwOnChange = o.variable('throwOnChange');\n  static changes =
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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/constants.js.map

No license file was found, but licenses were detected in source scan.

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IAAI,MAAM,CAAC,KAAK,CAAC,IAAI,EAAE,GAAG,CAAC,QAAQ,CAAC,CAAC,CAAC,CAAC;YAC5E;;;e

AGG;YACH,SAAS,YAAC,GAAsB,IAAI,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;YACID;;;eAGG;YACH,cA  
Ac,YAAC,GAAoB,IAAI,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;YACrD;;;eAGG;YACH,iBAAiB,YAAC,GA  
AuB,IAAI,MAAM,CAAC,KAAK,CAAC,IAAI,EAAE,GAAG,CAAC,QAAQ,CAAC,CAAC,CAAC;YACH  
F;;;eAGG;YACH,kBAakB,YAAC,GAAwB,IAAI,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;YAC7D;;;eAGG;Y  
ACH,UAAU,YAAC,GAAgB,IAAI,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;YAC7C;;;eAGG;YACH,mBAAm  
B,YAAC,GAAyB,IAAI,MAAM,CAAC,KAAK,CAAC,IAAI,EAAE,GAAG,CAAC,QAAQ,CAAC,IAAI,GAAG,C  
AAC,CAAC,CAAC;YAC3F;;;eAGG;YACH,qBAAqB,YAAC,GAA2B;gBACzC,MAAM,CAAC,KAAK,CAAC,IA  
AI,EAAE,GAAG,CAAC,QAAQ,CAAC,IAAI,GAAG,CAAC;YAC1C,CAAC;SACF,CAAC,CAAC;IACL,CAAC;I  
ACH;;;OAGG;IACK,wCAAc,GAAiB,UAAuB,GAAC;QAARc,iBA2GG;QA1GC,IAAM,gBAAgB,CAAC,KAAK,  
GAAG,UAAc,OAAyB,EAAE,GAAC;YACvE,MAAM,CAAC,GAAG,IAAI,CAAC,KAAI,CAAC,QAAQ,CAAC,G  
AAG,CAAC,GAAG,CAAC,IAAI,GAAG,CAAC,CAAC,KAAK,CAAC,OAAO,CAAC,CAAC;QAC/D,CAAC,CA  
AC;QACF,IAAM,gBAAgB,CAAC,SAAS,GAAG,UAAc,OAAyB,EAAE,GAAG;YAC7E,MAAM,CAAC,GAAG  
,CAAC,IAAI,CAAC,UAAA,GAAG,IAAI,OAAA,KAAK,CAAC,OAAO,EAAE,GAAG,CAAC,EAAnB,CAAmB,C  
AAC,CAAC;QAC9C,CAAC,CAAC;QACF,MAAM,CAAC,GAAG,CAAC,KAAK,CAAC;YACrB;;;eAGG;YACH,  
WAAW,YAAC,GAAiB,IACX,MAAM,CAAC,KAAK,CAAC,IAAI,EAAE,GAAG,CAAC,IAAI,CAAC,IAAI,KAA  
K,CAAC,IAAI,EAAE,GAAG,CAAC,KAAK,CAAC,CAAC,CAAA,CAAC;YAC1E;;;eAGG;YACH,UAAU,YAAC  
,GAAgB,IAAI,MAAM,CAAC,KAAK,CAAC,CAAC,CAAC;YAC9C;;;eAGG;YACH,gBAAgB,YAAC,GAAsB;g  
BACrB,MAAM,CAAC,KAAK,CAAC,IAAI,EAAE,GAAG,CAAC,SAAS,CAAC,IAAI,KAAK,CAAC,IAAI,EAAE  
,GAAG,CAAC,OAAO,CAAC;oBACzD,KAAK,CAAC,IAAI,EAAE,GAAG,CAAC,QAAQ,CAAC,CAAC;YAAA,  
CAAC;YACjD;;;eAGG;YACH,iBAAiB,YAAC,GAAuB,IAAI,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;YAC3  
D;;;eAGG;YACH,qBAAqB,YAAC,GAA2B,IAAI,MAAM,CAAC,KAAK,CAAC,CAAC,CAAC;YACpE;;;eAGG;  
YACH,kBAakB,YAAC,GAAwB,IAAI,MAAM,CAAC,SAAS,CAAC,IAAI,EAAE,GAAG,CAAC,WAAW,CAAC,  
CAAC,CAAC,CAAC;YACzF;;;eAGG;YACH,cAAc,YAAC,GAAoB,IAAI,MAAM,CAAC,KAAK,CAAC,CAAC,  
CAAC;YACtD;;;eAGG;YACH,eAAe,YAAC,GAAqB,IAAI,MAAM,CAAC,KAAK,CAAC,CAAC,CAAC;YACxD  
;;;eAGG;YACH,iBAAiB,YAAC,GAAuB,IAAI,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;YAC3D;;;eAGG;YAC  
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AC,GAA2B,IAAI,MAAM,CAAC,KAAK,CAAC,CAAC,CAAC;YACpE;;;eAGG;YACH,eAAe,YAAC,GAAqB,IA  
AI,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;YACvD;;;eAGG;YACH,SAAS,YAAC,GAAsB,IAAI,MAAM,CAA  
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IAAI,EAAE,GAAG,CAAC,UAAU,CAAC,CAAC,CAAC,CAAC;YAC5E;;;eAGG;YACH,iBAAiB,YAAC,GAAuB  
,IAAI,MAAM,CAAC,KAAK,CAAC,CAAC,CAAC;YAC5D;;;eAGG;YACH,kBAakB,YAAC,GAAwB,IAAI,MA  
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UAAU,GAAG,IAAI,CAAC,iBAAiB,EAAE,CAAC;QAC7D,IAAI,CAAC,cAAc,GAAG,IAAI,CAAC,GAAG,CAA  
C,IAAI,CAAC,iBAAiB,EAAE,IAAI,CAAC,cAAc,CAAC,CAAC;QAC5E,MAAM,CAAC,IAAI,CAAC,CAAC,W  
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;IACK,0CAAgB,GAAxB,UAAyB,SAAwB;QAC7C,IAAI,CAAC,iBAAiB,EAAE,CAAC;QACzB,EAAE,CAAC,C  
AAC,SAAS,CAAC,IAAI,IAAI,aAAa,CAAC,IAAI,CAAC,SAAS,EAAE,IAAI,CAAC,iBAAiB,CAAC,CAAC,CAA  
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C;IACH,CAAC;IACH,sBAAC;AAAD,CAAC,AAxpBD,IAwpBC;AAED;IACC,gBAAgB;IACjB,eAAe,CAAC,SA  
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AAC;IAC7C,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,cAAc,CAAC;IACxC,gBAAgB;IACjB,eAAe,CAAC,SA  
AS,CAAC,QAAQ,CAAC;IAC1C,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,aAAa,CAAC;IACvC,gBAAgB;IAC  
jB,eAAe,CAAC,SAAS,CAAC,iBAAiB,CAAC;IAC3C,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,eAAe,CAAC;  
IACzC,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,SAAS,CAAC;IACnC,gBAAgB;IACjB,eAAe,CAAC,SAAS,C





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o.Expression;\n}\n\nexport class EventHandlerVars { static event = o.variable('$event'); }\n\nfunction
EventHandlerVars_tsickle_Closure_declarations() {\n /** @type {?} */\nEventHandlerVars.event;\n}\n\n\nexport
class ConvertPropertyBindingResult {\n/**\n * @param {?} stmts\n * @param {?} currValExpr\n * @param {?}
forceUpdate\n * \nconstructor(\npublic stmts: o.Statement[],\npublic currValExpr: o.Expression,\npublic
forceUpdate: o.Expression) {\n}\n}\n\nfunction ConvertPropertyBindingResult_tsickle_Closure_declarations() {\n
/** @type {?} */\nConvertPropertyBindingResult.prototype.stmts;\n /** @type {?}
*/\nConvertPropertyBindingResult.prototype.currValExpr;\n /** @type {?}
*/\nConvertPropertyBindingResult.prototype.forceUpdate;\n}\n\n/**\n * Converts the given expression AST into
an executable output AST, assuming the expression is\n * used in a property binding.\n * @param {?} builder\n *
@param {?} nameResolver\n * @param {?} implicitReceiver\n * @param {?} expression\n * @param {?}
bindingId\n * @return {?}\n * \nexport function convertPropertyBinding(\n  builder: ClassBuilder, nameResolver:
NameResolver, implicitReceiver: o.Expression,\n  expression: cdAst.AST, bindingId: string):
ConvertPropertyBindingResult {\n  const /** @type {?} */ currValExpr = createCurrValueExpr(bindingId);\n  const
/** @type {?} */ stmts: o.Statement[] = [];\n  if (!nameResolver) {\n    nameResolver = new
DefaultNameResolver();\n  }\n  const /** @type {?} */ visitor = new _AstToIrVisitor(\n    builder, nameResolver,
implicitReceiver, VAL_UNWRAPPER_VAR, bindingId, false);\n  const /** @type {?} */ outputExpr:
o.Expression = expression.visit(visitor, _Mode.Expression);\n  if (!outputExpr) {\n    // e.g. an empty expression
was given\n    return null;\n  }\n  if (visitor.temporaryCount) {\n    for (let /** @type {?} */ i = 0; i <
visitor.temporaryCount; i++) {\n      stmts.push(temporaryDeclaration(bindingId, i));\n    }\n  }\n  if
(visitor.needsValueUnwrapper) {\n    const /** @type {?} */ initValueUnwrapperStmt =
VAL_UNWRAPPER_VAR.callMethod('reset', []).toStmt();\n    stmts.push(initValueUnwrapperStmt);\n  }\n  stmts.push(currValExpr.set(outputExpr).toDeclStmt(null, [o.StmtModifier.Final]));\n  if
(visitor.needsValueUnwrapper) {\n    return new ConvertPropertyBindingResult(\n      stmts, currValExpr,
VAL_UNWRAPPER_VAR.prop('hasWrappedValue'));\n  } else {\n    return new
ConvertPropertyBindingResult(stmts, currValExpr, null);\n  }\n}\n\nexport class ConvertActionBindingResult
{\n/**\n * @param {?} stmts\n * @param {?} preventDefault\n * \nconstructor(public stmts: o.Statement[],\npublic
preventDefault: o.ReadVarExpr) {\n}\n}\n\nfunction ConvertActionBindingResult_tsickle_Closure_declarations() {\n
/** @type {?} */\nConvertActionBindingResult.prototype.stmts;\n /** @type {?}
*/\nConvertActionBindingResult.prototype.preventDefault;\n}\n\n/**\n * Converts the given expression AST into
an executable output AST, assuming the expression is\n * used in an action binding (e.g. an event handler).\n *
@param {?} builder\n * @param {?} nameResolver\n * @param {?} implicitReceiver\n * @param {?} action\n *
@param {?} bindingId\n * @return {?}\n * \nexport function convertActionBinding(\n  builder: ClassBuilder,
nameResolver: NameResolver, implicitReceiver: o.Expression,\n  action: cdAst.AST, bindingId: string):
ConvertActionBindingResult {\n  if (!nameResolver) {\n    nameResolver = new DefaultNameResolver();\n  }\n  const
/** @type {?} */ visitor =\n    new _AstToIrVisitor(builder, nameResolver, implicitReceiver, null, bindingId,
true);\n  const /** @type {?} */ actionStmts: o.Statement[] = [];\n  flattenStatements(action.visit(visitor,
_Mode.Statement), actionStmts);\n  prependTemporaryDecls(visitor.temporaryCount, bindingId, actionStmts);\n  const
/** @type {?} */ lastIndex = actionStmts.length - 1;\n  let /** @type {?} */ preventDefaultVar:
o.ReadVarExpr = null;\n  if (lastIndex >= 0) {\n    const /** @type {?} */ lastStatement = actionStmts[lastIndex];\n    const
/** @type {?} */ returnExpr = convertStmtIntoExpression(lastStatement);\n    if (returnExpr) {\n      // Note:
We need to cast the result of the method call to dynamic,\n      // as it might be a void method!\n      preventDefaultVar = createPreventDefaultVar(bindingId);\n      actionStmts[lastIndex] =\n        preventDefaultVar.set(returnExpr.cast(o.DYNAMIC_TYPE).notIdentical(o.literal(false)))\n        .toDeclStmt(null, [o.StmtModifier.Final]);\n    }\n  }\n  return new ConvertActionBindingResult(actionStmts,
preventDefaultVar);\n}\n\n/**\n * Creates variables that are shared by multiple calls to `convertActionBinding` \n *
`convertPropertyBinding`\n * @param {?} stmts\n * @return {?}\n * \nexport function
createSharedBindingVariablesIfNeeded(stmts: o.Statement[]): o.Statement[] {\n  const /** @type {?} */
unwrapperStmts: o.Statement[] = [];\n  const /** @type {?} */ readVars = o.findReadVarNames(stmts);\n  if

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(readVars.has(VAL_UNWRAPPER_VAR.name)) {\n  unwrapperStmts.push(\n    VAL_UNWRAPPER_VAR\n      .set(o.importExpr(createIdentifier(Identifiers.ValueUnwrapper)).instantiate([]))\n      .toDeclStmt(null,\n [o.StmtModifier.Final]);\n  }\n  return unwrapperStmts;\n}\n\n/**\n * @param {?} bindingId\n * @param {?} temporaryNumber\n * @return {?}\n */\nfunction temporaryName(bindingId: string, temporaryNumber: number):\nstring {\n  return `tmp_${bindingId}_${temporaryNumber}`;\n}\n\n/**\n * @param {?} bindingId\n * @param {?} temporaryNumber\n * @return {?}\n */\nexport function temporaryDeclaration(bindingId: string,\ntemporaryNumber: number): o.Statement {\n  return new o.DeclareVarStmt(temporaryName(bindingId,\ntemporaryNumber), o.NULL_EXPR);\n}\n\n/**\n * @param {?} temporaryCount\n * @param {?} bindingId\n * @param {?} statements\n * @return {?}\n */\nfunction prependTemporaryDecls(\n  temporaryCount: number,\n  bindingId: string, statements: o.Statement[]) {\n  for (let /** @type {?} */ i = temporaryCount - 1; i >= 0; i--) {\n    statements.unshift(temporaryDeclaration(bindingId, i));\n  }\n}\n\ntype _Mode = number;\nlet _Mode: any =\n{};\n_Mode.Statement = 0;\n_Mode.Expression = 1;\n_Mode[_Mode.Statement] =\n`Statement`;\n_Mode[_Mode.Expression] = `Expression`;\n\n/**\n * @param {?} mode\n * @param {?} ast\n * @return {?}\n */\nfunction ensureStatementMode(mode: _Mode, ast: cdAst.AST) {\n  if (mode !==\n_Mode.Statement) {\n    throw new Error(`Expected a statement, but saw ${ast}`);\n  }\n}\n\n/**\n * @param {?} mode\n * @param {?} ast\n * @return {?}\n */\nfunction ensureExpressionMode(mode: _Mode, ast: cdAst.AST)\n{\n  if (mode !== _Mode.Expression) {\n    throw new Error(`Expected an expression, but saw ${ast}`);\n  }\n}\n\n/**\n * @param {?} mode\n * @param {?} expr\n * @return {?}\n */\nfunction\nconvertToStatementIfNeeded(mode: _Mode, expr: o.Expression): o.Expression|o.Statement {\n  if (mode ===\n_Mode.Statement) {\n    return expr.toStmt();\n  } else {\n    return expr;\n  }\n}\n\nclass _AstToIrVisitor\nimplements cdAst.AstVisitor {\n  private _nodeMap = new Map<cdAst.AST, cdAst.AST>();\n  private _resultMap =\nnew Map<cdAst.AST, o.Expression>();\n  private _currentTemporary: number = 0;\n  public needsValueUnwrapper:\nboolean = false;\n  public temporaryCount: number = 0;\n  /**\n * @param {?} _builder\n * @param {?} _nameResolver\n * @param {?} _implicitReceiver\n * @param {?} _valueUnwrapper\n * @param {?} bindingId\n * @param {?} isAction\n */\nconstructor(\nprivate _builder: ClassBuilder,\nprivate _nameResolver:\nNameResolver,\nprivate _implicitReceiver: o.Expression,\nprivate _valueUnwrapper: o.ReadVarExpr,\nprivate\nbindingId: string,\nprivate isAction: boolean) {\n  /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n  *\\nvisitBinary(ast: cdAst.Binary, mode: _Mode): any {\n    let /** @type {?} */ op: o.BinaryOperator;\n    switch\n(ast.operation) {\n      case '+':\n        op = o.BinaryOperator.Plus;\n        break;\n      case '-':\n        op =\no.BinaryOperator.Minus;\n        break;\n      case '*':\n        op = o.BinaryOperator.Multiply;\n        break;\n      case\n'/':\n        op = o.BinaryOperator.Divide;\n        break;\n      case '%':\n        op = o.BinaryOperator.Modulo;\n        break;\n      case '&&':\n        op = o.BinaryOperator.And;\n        break;\n      case '||':\n        op =\no.BinaryOperator.Or;\n        break;\n      case '==':\n        op = o.BinaryOperator.Equals;\n        break;\n      case\n'!=':\n        op = o.BinaryOperator.NotEquals;\n        break;\n      case '===':\n        op = o.BinaryOperator.Identical;\n        break;\n      case '!==':\n        op = o.BinaryOperator.NotIdentical;\n        break;\n      case '<':\n        op =\no.BinaryOperator.Lower;\n        break;\n      case '>':\n        op = o.BinaryOperator.Bigger;\n        break;\n      case\n'<=':\n        op = o.BinaryOperator.LowerEquals;\n        break;\n      case '>=':\n        op =\no.BinaryOperator.BiggerEquals;\n        break;\n      default:\n        throw new Error(`Unsupported operation\n${ast.operation}`);\n    }\n    return convertToStatementIfNeeded(\n      mode,\n      new\no.BinaryOperatorExpr(\n        op, this.visit(ast.left, _Mode.Expression), this.visit(ast.right,\n_Mode.Expression));\n    );\n  }\n  /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n  *\\nvisitChain(ast:\ncdAst.Chain, mode: _Mode): any {\n    ensureStatementMode(mode, ast);\n    return this.visitAll(ast.expressions,\nmode);\n  }\n  /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n  *\\nvisitConditional(ast:\ncdAst.Conditional, mode: _Mode): any {\n    const /** @type {?} */ value: o.Expression = this.visit(ast.condition,\n_Mode.Expression);\n    return convertToStatementIfNeeded(\n      mode,\n      value.conditional(\n        this.visit(ast.trueExp, _Mode.Expression), this.visit(ast.falseExp, _Mode.Expression));\n    );\n  }\n  /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n  *\\nvisitPipe(ast: cdAst.BindingPipe, mode: _Mode): any {\n    const\n/** @type {?} */ input = this.visit(ast.exp, _Mode.Expression);\n    const /** @type {?} */ args =

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this.visitAll(ast.args, _Mode.Expression);\n  const /** @type {?} */ value = this._nameResolver.callPipe(ast.name,
input, args);\n  if (!value) {\n    throw new Error('Illegal state: Pipe ${ast.name} is not allowed here!');\n  }\n  this.needsValueUnwrapper = true;\n  return convertToStatementIfNeeded(mode,
this._valueUnwrapper.callMethod('unwrap', [value]));\n }\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\nvisitFunctionCall(ast: cdAst.FunctionCall, mode: _Mode): any {\n  return
convertToStatementIfNeeded(\n    mode,\n    this.visit(ast.target,
_Mode.Expression).callFn(this.visitAll(ast.args, _Mode.Expression)));\n }\n/**\n * @param {?} ast\n * @param
 {?} mode\n * @return {?}\n */\nvisitImplicitReceiver(ast: cdAst.ImplicitReceiver, mode: _Mode): any {\n
ensureExpressionMode(mode, ast);\n  return this._implicitReceiver;\n }\n/**\n * @param {?} ast\n * @param {?}
mode\n * @return {?}\n */\nvisitInterpolation(ast: cdAst.Interpolation, mode: _Mode): any {\n
ensureExpressionMode(mode, ast);\n  const /** @type {?} */ args = [o.literal(ast.expressions.length)];\n  for (let
/** @type {?} */ i = 0; i < ast.strings.length - 1; i++) {\n    args.push(o.literal(ast.strings[i]));\n
args.push(this.visit(ast.expressions[i], _Mode.Expression));\n  }\n  args.push(o.literal(ast.strings[ast.strings.length
- 1]));\n  return ast.expressions.length <= 9 ?\n
o.importExpr(createIdentifier(Identifiers.inlineInterpolate)).callFn(args) :\n
o.importExpr(createIdentifier(Identifiers.interpolate)).callFn([\n    args[0], o.literalArr(args.slice(1))\n  ]);\n
}\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\nvisitKeyedRead(ast: cdAst.KeyedRead,
mode: _Mode): any {\n  const /** @type {?} */ leftMostSafe = this.leftMostSafeNode(ast);\n  if (leftMostSafe)
{\n    return this.convertSafeAccess(ast, leftMostSafe, mode);\n  } else {\n    return
convertToStatementIfNeeded(\n      mode, this.visit(ast.obj, _Mode.Expression).key(this.visit(ast.key,
_Mode.Expression)));\n  }\n }\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\nvisitKeyedWrite(ast: cdAst.KeyedWrite, mode: _Mode): any {\n  const /** @type {?} */ obj: o.Expression =
this.visit(ast.obj, _Mode.Expression);\n  const /** @type {?} */ key: o.Expression = this.visit(ast.key,
_Mode.Expression);\n  const /** @type {?} */ value: o.Expression = this.visit(ast.value, _Mode.Expression);\n
return convertToStatementIfNeeded(mode, obj.key(key).set(value));\n }\n/**\n * @param {?} ast\n * @param {?}
mode\n * @return {?}\n */\nvisitLiteralArray(ast: cdAst.LiteralArray, mode: _Mode): any {\n  const /** @type
 {?} */ parts = this.visitAll(ast.expressions, mode);\n  const /** @type {?} */ literalArr =\n    this.isAction ?
o.literalArr(parts) : createCachedLiteralArray(this._builder, parts);\n  return convertToStatementIfNeeded(mode,
literalArr);\n }\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\nvisitLiteralMap(ast:
cdAst.LiteralMap, mode: _Mode): any {\n  const /** @type {?} */ parts: any[] = [];\n  for (let /** @type {?} */ i
= 0; i < ast.keys.length; i++) {\n    parts.push([ast.keys[i], this.visit(ast.values[i], _Mode.Expression)]);\n  }\n
const /** @type {?} */ literalMap =\n    this.isAction ? o.literalMap(parts) :
createCachedLiteralMap(this._builder, parts);\n  return convertToStatementIfNeeded(mode, literalMap);\n
}\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\nvisitLiteralPrimitive(ast:
cdAst.LiteralPrimitive, mode: _Mode): any {\n  return convertToStatementIfNeeded(mode, o.literal(ast.value));\n
}\n/**\n * @param {?} name\n * @return {?}\n */\nprivate _getLocal(name: string): o.Expression {\n  if
(this.isAction && name == EventHandlerVars.event.name) {\n    return EventHandlerVars.event;\n  }\n  return
this._nameResolver.getLocal(name);\n }\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\nvisitMethodCall(ast: cdAst.MethodCall, mode: _Mode): any {\n  const /** @type {?} */ leftMostSafe =
this.leftMostSafeNode(ast);\n  if (leftMostSafe) {\n    return this.convertSafeAccess(ast, leftMostSafe, mode);\n
} else {\n    const /** @type {?} */ args = this.visitAll(ast.args, _Mode.Expression);\n    let /** @type {?} */
result: any = null;\n    const /** @type {?} */ receiver = this.visit(ast.receiver, _Mode.Expression);\n    if (receiver
=== this._implicitReceiver) {\n      const /** @type {?} */ varExpr = this._getLocal(ast.name);\n      if
(isPresent(varExpr)) {\n        result = varExpr.callFn(args);\n      }\n    }\n    if (isBlank(result)) {\n      result =
receiver.callMethod(ast.name, args);\n    }\n    return convertToStatementIfNeeded(mode, result);\n  }\n
}\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\nvisitPrefixNot(ast: cdAst.PrefixNot, mode:
_Mode): any {\n  return convertToStatementIfNeeded(mode, o.not(this.visit(ast.expression,
_Mode.Expression)));\n }\n/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n

```



```

this._nodeMap.delete(leftMostSafe);\n\n // If we allocated a temporary, release it.\n  if (temporary) {\n    this.releaseTemporary(temporary);\n  }\n\n // Produce the conditional\n  return
convertToStatementIfNeeded(mode, condition.conditional(o.literal(null), access));\n } \n\n * @param {?} ast\n * @return {?}\n *\nprivate leftMostSafeNode(ast: cdAst.AST): cdAst.SafePropertyRead|cdAst.SafeMethodCall {\n  const /** @type {?} */ visit = (visitor: cdAst.AstVisitor, ast: cdAst.AST): any => {\n    return
(this._nodeMap.get(ast) || ast).visit(visitor);\n  };\n  return ast.visit({\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitBinary(ast: cdAst.Binary) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitChain(ast: cdAst.Chain) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitConditional(ast: cdAst.Conditional) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitFunctionCall(ast: cdAst.FunctionCall) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitImplicitReceiver(ast: cdAst.ImplicitReceiver) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitInterpolation(ast: cdAst.Interpolation) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitKeyedRead(ast: cdAst.KeyedRead) { return visit(this, ast.obj); },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitKeyedWrite(ast: cdAst.KeyedWrite) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitLiteralArray(ast: cdAst.LiteralArray) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitLiteralMap(ast: cdAst.LiteralMap) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitLiteralPrimitive(ast: cdAst.LiteralPrimitive) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitMethodCall(ast: cdAst.MethodCall) { return visit(this, ast.receiver); },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPipe(ast: cdAst.BindingPipe) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPrefixNot(ast: cdAst.PrefixNot) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPropertyRead(ast: cdAst.PropertyRead) { return visit(this, ast.receiver); },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPropertyWrite(ast: cdAst.PropertyWrite) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitQuote(ast: cdAst.Quote) { return null; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitSafeMethodCall(ast: cdAst.SafeMethodCall) { return visit(this, ast.receiver) || ast; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitSafePropertyRead(ast: cdAst.SafePropertyRead) {\n      return visit(this, ast.receiver) || ast;\n    }\n  });\n } \n\n *\nprivate needsTemporary(ast: cdAst.AST): boolean {\n  const /** @type {?} */ visit = (visitor: cdAst.AstVisitor, ast: cdAst.AST): boolean => {\n    return
ast && (this._nodeMap.get(ast) || ast).visit(visitor);\n  };\n  const /** @type {?} */ visitSome = (visitor: cdAst.AstVisitor, ast: cdAst.AST[]): boolean => {\n    return
ast.some(ast => visit(visitor, ast));\n  };\n  return
ast.visit({\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitBinary(ast: cdAst.Binary):\n      boolean{\n        return
visit(this, ast.left) || visit(this, ast.right);\n      },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitChain(ast: cdAst.Chain) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitConditional(ast: cdAst.Conditional):\n      boolean{\n        return
visit(this, ast.condition) || visit(this, ast.trueExp) ||\n        visit(this, ast.falseExp);\n      },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitFunctionCall(ast: cdAst.FunctionCall) { return true; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitImplicitReceiver(ast: cdAst.ImplicitReceiver) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitInterpolation(ast: cdAst.Interpolation) { return visitSome(this, ast.expressions); },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitKeyedRead(ast: cdAst.KeyedRead) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitKeyedWrite(ast: cdAst.KeyedWrite) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitLiteralArray(ast: cdAst.LiteralArray) { return true; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitLiteralMap(ast: cdAst.LiteralMap) { return true; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitLiteralPrimitive(ast: cdAst.LiteralPrimitive) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitMethodCall(ast: cdAst.MethodCall) { return true; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPipe(ast: cdAst.BindingPipe) { return true; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPrefixNot(ast: cdAst.PrefixNot) { return visit(this, ast.expression); },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPropertyRead(ast: cdAst.PropertyRead) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitPropertyWrite(ast: cdAst.PropertyWrite) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\nvisitQuote(ast: cdAst.Quote) { return false; },\n    /** @param {?} ast\n    * @return {?}\n    *\n    }\n  });\n } \n\n

```



null;\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n}}

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-

tgz/package/src/compiler\_util/expression\_converter.js.map

No license file was found, but licenses were detected in source scan.

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CAAC,IAAI,uBAAuB,CAAC;AAC3E,CAAC", "sourcesContent": ["/\*\*\n \* @license\n \* Copyright Google Inc. All  
Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the  
LICENSE file at https://angular.io/license\n \*\n\nimport { TagContentType, TagDefinition } from './tags';\n\nexport  
class HtmlTagDefinition implements TagDefinition {\n private closedByChildren: {[key: string]: boolean} = {};\n closedByParent: boolean = false;\n requiredParents: {[key: string]: boolean};\n parentToAdd: string;\n implicitNamespacePrefix: string;\n contentType: TagContentType;\n isVoid: boolean;\n ignoreFirstLf: boolean;\n canSelfClose: boolean = false;\n\n constructor(\n {closedByChildren,  
requiredParents, implicitNamespacePrefix,\n contentType = TagContentType.PARSABLE\_DATA,  
closedByParent = false, isVoid = false,\n ignoreFirstLf = false}: {\n closedByChildren?: string[],\n closedByParent?: boolean,\n requiredParents?: string[],\n implicitNamespacePrefix?: string,\n contentType?: TagContentType,\n isVoid?: boolean,\n ignoreFirstLf?: boolean\n } = {})\n if  
(closedByChildren && closedByChildren.length > 0) {\n closedByChildren.forEach(tagName =>  
this.closedByChildren[tagName] = true);\n }\n this.isVoid = isVoid;\n this.closedByParent = closedByParent ||  
isVoid;\n if (requiredParents && requiredParents.length > 0) {\n this.requiredParents = {};\n // The first  
parent is the list is automatically when none of the listed parents are present\n this.parentToAdd =  
requiredParents[0];\n requiredParents.forEach(tagName => this.requiredParents[tagName] = true);\n }\n this.implicitNamespacePrefix = implicitNamespacePrefix;\n this.contentType = contentType;\n this.ignoreFirstLf = ignoreFirstLf;\n\n } /\*\*\n \* @param {?} currentParent\n \* @return {?} \*/





\_DEFAULT\_TAG\_DEFINITION;\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}]

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/html\_tags.js.map

No license file was found, but licenses were detected in source scan.

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```

```

    }\n\n  entries.splice(insertionIndex, 0, tuple);\n  }\n/**\n * @param {?} property\n * @param {?} index\n * @return {?} */\n *^ngetByIndex(property: string, index: number): StylesCollectionEntry {\n  const /** @type {?} */\n  items = this.styles[property];\n  if (isPresent(items)) {\n    return index >= items.length ? null : items[index];\n  }\n  return null;\n  }\n/**\n * @param {?} property\n * @param {?} time\n * @return {?} */\n *^nindexOfAtOrBeforeTime(property: string, time: number): number {\n  const /** @type {?} */ entries =\n  this.styles[property];\n  if (isPresent(entries)) {\n    for (let /** @type {?} */ i = entries.length - 1; i >= 0; i--) {\n      if (entries[i].time <= time) return i;\n    }\n  }\n  return null;\n  }\n}\n\nfunction\nStylesCollection_tsickle_Closure_declarations() {\n  /** @type {?} */\n  *^nStylesCollection.prototype.styles;\n  }\n\n  ninterface DecoratorInvocation {\n    type: Function;\n    args?:\n    any[];\n  }\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/animation/styles_collection.js.map

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No license file was found, but licenses were detected in source scan.

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AC,SAAS,CAAC,WAaw,CAAC;AACnC,CAAC", "sourcesContent":["/\*\*\n \* @license\n \* Copyright Google Inc.  
All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in  
the LICENSE file at https://angular.io/license\n \*\nimport { CompileDirectiveSummary,  
CompileIdentifierMetadata, CompileNgModuleSummary, CompilePipeSummary, CompileSummaryKind,  
CompileTypeMetadata, CompileTypeSummary, identifierModuleUrl, identifierName} from

```

'./compile_metadata';\nimport {Summary, SummaryResolver} from './summary_resolver';\nimport
{ValueTransformer, visitValue} from './util';\nimport {GeneratedFile} from './generated_file';\nimport
{StaticSymbol, StaticSymbolCache} from './static_symbol';\nimport {ResolvedStaticSymbol,
StaticSymbolResolver} from './static_symbol_resolver';\n\nconst /** @type {?} */ STRIP_SRC_FILE_SUFFIXES
= /(\\.ts\\.d\\.d\\.ts\\.js\\.jsx\\.tsx)$/;\n\nexport interface AotSummarySerializerHost {\n /**\n * Returns the output
file path of a source file.\n * E.g.\n * `some_file.ts` -> `some_file.d.ts`\n */\n
getOutputFileName(sourceFilePath: string): string;\n /**\n * Returns whether a file is a source file or not.\n */\n
isSourceFile(sourceFilePath: string): boolean;\n}\n\n/**\n * @param {?} host\n * @param {?} summaryResolver\n *
@param {?} symbolResolver\n * @param {?} symbols\n * @param {?} types\n * @return {?}\n */\n\nexport
function serializeSummaries(\n host: AotSummarySerializerHost, summaryResolver:
SummaryResolver<StaticSymbol>,\n symbolResolver: StaticSymbolResolver,\n\n symbols:
ResolvedStaticSymbol[], types: CompileTypeSummary[]): string {\n const /** @type {?} */ serializer = new
Serializer(host);\n\n // for symbols, we use everything except for the class metadata itself\n // (we keep the statics
though), as the class metadata is contained in the\n // CompileTypeSummary.\n symbols.forEach(\n
(resolvedSymbol) => serializer.addOrMergeSummary(\n {symbol: resolvedSymbol.symbol, metadata:
resolvedSymbol.metadata});\n // Add summaries that are referenced by the given symbols (transitively)\n // Note:
the serializer.symbols array might be growing while\n // we execute the loop!\n for (let /** @type {?} */
processedIndex = 0; processedIndex < serializer.symbols.length; processedIndex++) {\n const /** @type {?} */
symbol = serializer.symbols[processedIndex];\n if (!host.isSourceFile(symbol.filePath)) {\n let /** @type {?} */
summary = summaryResolver.resolveSummary(symbol);\n if (!summary) {\n // some symbols might
originate from a plain typescript library\n // that just exported .d.ts and .metadata.json files, i.e. where no
summary\n // files were created.\n const /** @type {?} */ resolvedSymbol =
symbolResolver.resolveSymbol(symbol);\n if (resolvedSymbol) {\n summary = {symbol:
resolvedSymbol.symbol, metadata: resolvedSymbol.metadata};\n }\n }\n if (summary) {\n
serializer.addOrMergeSummary(summary);\n }\n }\n }\n\n // Add type summaries.\n // Note: We don't add
the summaries of all referenced symbols as for the ResolvedSymbols,\n // as the type summaries already contain the
transitive data that they require\n // (in a minimal way).\n types.forEach((typeSummary) => {\n
serializer.addOrMergeSummary(\n {symbol: typeSummary.type.reference, metadata: {__symbolic: 'class'},
type: typeSummary});\n if (typeSummary.summaryKind === CompileSummaryKind.NgModule) {\n const /**
@param {?} */ ngModuleSummary = /** @type {?} */ ((<CompileNgModuleSummary>typeSummary));\n
ngModuleSummary.exportedDirectives.concat(ngModuleSummary.exportedPipes).forEach((id) => {\n const
/** @type {?} */ symbol: StaticSymbol = id.reference;\n if (!host.isSourceFile(symbol.filePath)) {\n
serializer.addOrMergeSummary(summaryResolver.resolveSummary(symbol));\n }\n });\n });\n return
serializer.serialize();\n}\n\n/**\n * @param {?} symbolCache\n * @param {?} json\n * @return {?}\n */\n\nexport
function deserializeSummaries(\n symbolCache: StaticSymbolCache, json: string): Summary<StaticSymbol>[] {\n
const /** @type {?} */ deserializer = new Deserializer(symbolCache);\n return
deserializer.deserialize(json);\n}\n\n/**\n * @param {?} fileName\n * @return {?}\n */\n\nexport function
summaryFileName(fileName: string): string {\n const /** @type {?} */ fileNameWithoutSuffix =
fileName.replace(STRIP_SRC_FILE_SUFFIXES, '');\n return
`${fileNameWithoutSuffix}.ngsummary.json`;\n}\n\n\nclass Serializer extends ValueTransformer {\n symbols:
StaticSymbol[] = [];\nprivate indexBySymbol = new Map<StaticSymbol, number>();\nprivate
processedSummaryBySymbol = new Map<StaticSymbol, any>();\nprivate processedSummaries: any[] = [];\n\n/**\n * @param {?} host\n */\n\nconstructor(private host: AotSummarySerializerHost) { super(); }\n\n/**\n * @param {?}
summary\n * @return {?}\n */\n\naddOrMergeSummary(summary: Summary<StaticSymbol>) {\n let /** @type
@param {?} */ symbolMeta = summary.metadata;\n if (symbolMeta && symbolMeta.__symbolic === 'class') {\n // For
classes, we only keep their statics, but not the metadata\n // of the class itself as that has been captured already
via other summaries\n // (e.g. DirectiveSummary, ...).\n symbolMeta = {__symbolic: 'class', statics:
symbolMeta.statics};\n }\n\n let /** @type {?} */ processedSummary =

```



```

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CAAC,eAAe,CAAC;AACvC,CAAC", "sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\nimport { AnimationEntryCompileResult } from
'./animation/animation_compiler';\nimport { CompileDirectiveMetadata, CompilePipeSummary } from
'./compile_metadata';\nimport { CompilerConfig } from './config';\nimport { CompilerInjectable } from
'./injectable';\nimport * as o from './output/output_ast';\nimport { ElementSchemaRegistry } from
'./schema/element_schema_registry';\nimport { TemplateAst } from './template_parser/template_ast';\n\nimport
{ CompileElement } from './compile_element';\nimport { CompileView } from './compile_view';\nimport
{ ComponentFactoryDependency, DirectiveWrapperDependency, ViewClassDependency } from './deps';\nimport
{ bindView } from './view_binder';\nimport { buildView, finishView } from './view_builder';\n\nexport
{ ComponentFactoryDependency, DirectiveWrapperDependency, ViewClassDependency } from './deps';\n\nexport
class ViewCompileResult {\n/**\n * @param {?} statements\n * @param {?} viewClassVar\n * @param {?}
dependencies\n *\nconstructor(\npublic statements: o.Statement[],\npublic viewClassVar: string,\npublic
dependencies:\n
Array<ViewClassDependency|ComponentFactoryDependency|DirectiveWrapperDependency>) {} }\n\nfunction
ViewCompileResult_tsickle_Closure_declarations() {\n/** @type {?}
*\nViewCompileResult.prototype.statements;\n/** @type {?} *\nViewCompileResult.prototype.viewClassVar;\n
/** @type {?} *\nViewCompileResult.prototype.dependencies;\n}\n\n@CompilerInjectable()\nexport class
ViewCompiler {\n/**\n * @param {?} _genConfig\n * @param {?} _schemaRegistry\n *\nconstructor(private
_genConfig: CompilerConfig,\nprivate _schemaRegistry: ElementSchemaRegistry) {\n/**\n * @param {?}
component\n * @param {?} template\n * @param {?} styles\n * @param {?} pipes\n * @param {?}
compiledAnimations\n * @return {?}\n *\ncompileComponent(\n component: CompileDirectiveMetadata,
template: TemplateAst[], styles: o.Expression,\n pipes: CompilePipeSummary[],\n compiledAnimations:
AnimationEntryCompileResult[]): ViewCompileResult {\n const /** @type {?} */ dependencies:\n
Array<ViewClassDependency|ComponentFactoryDependency|DirectiveWrapperDependency> = [];\n const /**
@type {?} */ view = new CompileView(\n component, this._genConfig, pipes, styles, compiledAnimations,
0,\n CompileElement.createNull(), [], dependencies);\n\n const /** @type {?} */ statements: o.Statement[] =
[];\n buildView(view, template, dependencies);\n // Need to separate binding from creation to be able to refer
to\n // variables that have been declared after usage.\n bindView(view, template, this._schemaRegistry);\n
finishView(view, statements);\n\n return new ViewCompileResult(statements, view.classExpr.name,
dependencies);\n }\n}\n\nfunction ViewCompiler_tsickle_Closure_declarations() {\n/** @type {?}
*\nViewCompiler.prototype._genConfig;\n/** @type {?}
*\nViewCompiler.prototype._schemaRegistry;\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?:
any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/view_compiler.js.map

```

No license file was found, but licenses were detected in source scan.

## Angular

=====

The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

License: MIT

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/README.md

No license file was found, but licenses were detected in source scan.

/\*\*

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\* found in the LICENSE file at https://angular.io/license

\*/

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/generated\_file.js

No license file was found, but licenses were detected in source scan.

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```

{?} span\n * @param {?} errorMsg\n *^\nconstructor(span: ParseSourceSpan, errorMsg: string) { super(span,
errorMsg); }\n}\n/**\n * Expand expansion forms (plural, select) to directives\n * *\n *^\nclass _Expander
implements html.Visitor {\n isExpanded: boolean = false;\n errors: ParseError[] = [];\n/**\n * @param {?}
element\n * @param {?} context\n * @return {?}\n *^\nvisitElement(element: html.Element, context: any): any {\n
return new html.Element(\n     element.name, element.attrs, html.visitAll(this, element.children),
element.sourceSpan,\n     element.startSourceSpan, element.endSourceSpan);\n }\n/**\n * @param {?} attribute\n
* @param {?} context\n * @return {?}\n *^\nvisitAttribute(attribute: html.Attribute, context: any): any { return
attribute; }\n/**\n * @param {?} text\n * @param {?} context\n * @return {?}\n *^\nvisitText(text: html.Text,
context: any): any { return text; }\n/**\n * @param {?} comment\n * @param {?} context\n * @return {?}\n
*^\nvisitComment(comment: html.Comment, context: any): any { return comment; }\n/**\n * @param {?} icu\n
* @param {?} context\n * @return {?}\n *^\nvisitExpansion(icu: html.Expansion, context: any): any {\n
this.isExpanded = true;\n     return icu.type == 'plural' ? _expandPluralForm(icu, this.errors) :\n
_expandDefaultForm(icu, this.errors);\n }\n/**\n * @param {?} icuCase\n * @param {?} context\n * @return
{?}\n *^\nvisitExpansionCase(icuCase: html.ExpansionCase, context: any): any {\n     throw new Error('Should not
be reached');\n }\n}\n\nfunction _Expander_tsickle_Closure_declarations() {\n /** @type {?}
*^\n _Expander.prototype.isExpanded;\n /** @type {?} *^\n _Expander.prototype.errors;\n }\n\n/**\n * @param {?}
ast\n * @param {?} errors\n * @return {?}\n *^\nfunction _expandPluralForm(ast: html.Expansion, errors:
ParseError[]): html.Element {\n     const /** @type {?} */ children = ast.cases.map(c => {\n     if
(PLURAL_CASES.indexOf(c.value) == -1 && !c.value.match(/^=\d+$/)) {\n         errors.push(new
ExpansionError(\n             c.valueSourceSpan,\n             `Plural cases should be "="<number>" or one of
${PLURAL_CASES.join(", ")}`);\n     }\n     const /** @type {?} */ expansionResult =
expandNodes(c.expression);\n     errors.push(...expansionResult.errors);\n     return new html.Element(\n
`template`, [new html.Attribute('ngPluralCase', `${c.value}`, c.valueSourceSpan)],\n         expansionResult.nodes,
c.sourceSpan, c.sourceSpan, c.sourceSpan);\n     });\n     const /** @type {?} */ switchAttr = new
html.Attribute('ngPlural', ast.switchValue, ast.switchValueSourceSpan);\n     return new html.Element(\n     'ng-
container', [switchAttr], children, ast.sourceSpan, ast.sourceSpan, ast.sourceSpan);\n }\n\n/**\n * @param {?} ast\n
* @param {?} errors\n * @return {?}\n *^\nfunction _expandDefaultForm(ast: html.Expansion, errors: ParseError[]):
html.Element {\n     const /** @type {?} */ children = ast.cases.map(c => {\n     const /** @type {?} */
expansionResult = expandNodes(c.expression);\n     errors.push(...expansionResult.errors);\n     if (c.value ===
'other') {\n         // other is the default case when no values match\n         return new html.Element(\n             `template`,
[new html.Attribute('ngSwitchDefault', "", c.valueSourceSpan)],\n             expansionResult.nodes, c.sourceSpan,
c.sourceSpan, c.sourceSpan);\n     }\n     return new html.Element(\n             `template`, [new
html.Attribute('ngSwitchCase', `${c.value}`, c.valueSourceSpan)],\n             expansionResult.nodes, c.sourceSpan,
c.sourceSpan, c.sourceSpan);\n     });\n     const /** @type {?} */ switchAttr = new html.Attribute('ngSwitch'],
ast.switchValue, ast.switchValueSourceSpan);\n     return new html.Element(\n     'ng-container', [switchAttr],
children, ast.sourceSpan, ast.sourceSpan, ast.sourceSpan);\n }\n}\n\ninterface DecoratorInvocation {\n type:
Function;\n args?: any[];\n}\n}

```

Found in path(s):

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
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Found in path(s):

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No license file was found, but licenses were detected in source scan.

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```

any, type?: any) => void;\nexport const /** @type {?} */ ERROR_COLLECTOR_TOKEN = new
OpaqueToken('ErrorCollector');\n\n// Design notes:\n// - don't lazily create metadata:\n// For some metadata, we
need to do async work sometimes,\n// so the user has to kick off this loading.\n// But we want to report errors
even when the async work is\n// not required to check that the user would have been able\n// to wait
correctly.\n@CompilerInjectable()\nexport class CompileMetadataResolver {\nprivate _directiveCache = new
Map<Type<any>, cpl.CompileDirectiveMetadata>();\nprivate _summaryCache = new Map<Type<any>,
cpl.CompileTypeSummary>();\nprivate _pipeCache = new Map<Type<any>,
cpl.CompilePipeMetadata>();\nprivate _ngModuleCache = new Map<Type<any>,
cpl.CompileNgModuleMetadata>();\nprivate _ngModuleOfTypes = new Map<Type<any>, Type<any>>();\n/**\n *
@param {?} _ngModuleResolver\n * @param {?} _directiveResolver\n * @param {?} _pipeResolver\n * @param
{?} _summaryResolver\n * @param {?} _schemaRegistry\n * @param {?} _directiveNormalizer\n * @param {?=}
_reflector\n * @param {?=} _errorCollector\n */\nconstructor(\nprivate _ngModuleResolver:
NgModuleResolver,\nprivate _directiveResolver: DirectiveResolver,\nprivate _pipeResolver: PipeResolver,\nprivate
_summaryResolver: SummaryResolver<any>,\nprivate _schemaRegistry: ElementSchemaRegistry,\nprivate
_directiveNormalizer: DirectiveNormalizer,\nprivate _reflector: ReflectorReader = reflector,\nprivate
_errorCollector?: ErrorCollector) {\n/**\n * @param {?} type\n * @return {?}\n */\nnclearCacheFor(type:
Type<any>) {\n  const /** @type {?} */ dirMeta = this._directiveCache.get(type);\n  this._directiveCache.delete(type);\n  this._summaryCache.delete(type);\n  this._pipeCache.delete(type);\n  this._ngModuleOfTypes.delete(type);\n  // Clear all of the NgModule as they contain transitive information!\n  this._ngModuleCache.clear();\n  if (dirMeta) {\n    this._directiveNormalizer.clearCacheFor(dirMeta);\n  }\n}\n/**\n * @return {?}\n */\nnclearCache() {\n  this._directiveCache.clear();\n  this._summaryCache.clear();\n  this._pipeCache.clear();\n  this._ngModuleCache.clear();\n  this._ngModuleOfTypes.clear();\n  this._directiveNormalizer.clearCache();\n}\n/**\n * @param {?} entry\n * @return {?}\n */\ngetAnimationEntryMetadata(entry: AnimationEntryMetadata): cpl.CompileAnimationEntryMetadata {\n  const
/** @type {?} */ defs = entry.definitions.map(def => this._getAnimationStateMetadata(def));\n  return new
cpl.CompileAnimationEntryMetadata(entry.name, defs);\n}\n/**\n * @param {?} value\n * @return {?}\n */\nprivate _getAnimationStateMetadata(value: AnimationStateMetadata):\n  cpl.CompileAnimationStateMetadata {\n    if (value instanceof AnimationStateDeclarationMetadata) {\n      const
/** @type {?} */ styles = this._getAnimationStyleMetadata(value.styles);\n      return new
cpl.CompileAnimationStateDeclarationMetadata(value.stateNameExpr, styles);\n    }\n    if (value instanceof
AnimationStateTransitionMetadata) {\n      return new cpl.CompileAnimationStateTransitionMetadata(\n        value.stateChangeExpr, this._getAnimationMetadata(value.steps));\n    }\n    return null;\n  }\n/**\n * @param
{?} value\n * @return {?}\n */\nprivate _getAnimationStyleMetadata(value: AnimationStyleMetadata):\n  cpl.CompileAnimationStyleMetadata {\n    return new cpl.CompileAnimationStyleMetadata(value.offset,
value.styles);\n  }\n/**\n * @param {?} value\n * @return {?}\n */\nprivate _getAnimationMetadata(value:
AnimationMetadata): cpl.CompileAnimationMetadata {\n    if (value instanceof AnimationStyleMetadata) {\n      return this._getAnimationStyleMetadata(value);\n    }\n    if (value instanceof
AnimationKeyframesSequenceMetadata) {\n      return new cpl.CompileAnimationKeyframesSequenceMetadata(\n        value.steps.map(entry => this._getAnimationStyleMetadata(entry));\n      );\n    }\n    if (value instanceof
AnimationAnimateMetadata) {\n      const /** @type {?} */ animateData = /** @type {?} */ ((\n        <cpl.CompileAnimationStyleMetadata|cpl.CompileAnimationKeyframesSequenceMetadata>this\n        ._getAnimationMetadata(value.styles));\n      return new cpl.CompileAnimationAnimateMetadata(value.timings,
animateData);\n    }\n    if (value instanceof AnimationWithStepsMetadata) {\n      const /** @type {?} */ steps =
value.steps.map(step => this._getAnimationMetadata(step));\n    }\n    if (value instanceof AnimationGroupMetadata)
{\n      return new cpl.CompileAnimationGroupMetadata(steps);\n    }\n    return new
cpl.CompileAnimationSequenceMetadata(steps);\n  }\n  return null;\n}\n/**\n * @param {?} type\n * @param
{?} kind\n * @return {?}\n */\nprivate _loadSummary(type: any, kind: cpl.CompileSummaryKind):\n  cpl.CompileTypeSummary {\n    let /** @type {?} */ typeSummary = this._summaryCache.get(type);\n    if

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(!typeSummary) {\n    const /** @type {?} */ summary = this._summaryResolver.resolveSummary(type);\n    typeSummary = summary ? summary.type : null;\n    this._summaryCache.set(type, typeSummary);\n  }\n  return typeSummary && typeSummary.summaryKind === kind ? typeSummary : null;\n  }\n  /**\n   * @param {?} directiveType\n   * @param {?} isSync\n   * @return {?} */\n  private _loadDirectiveMetadata(directiveType: any, isSync: boolean): Promise<any> {\n    if (this._directiveCache.has(directiveType)) {\n      return;\n    }\n    directiveType = resolveForwardRef(directiveType);\n    const {annotation, metadata} = this.getNonNormalizedDirectiveMetadata(directiveType);\n    const /** @type {?} */ createDirectiveMetadata = (templateMetadata: cpl.CompileTemplateMetadata) => {\n      const /** @type {?} */ normalizedDirMeta = new cpl.CompileDirectiveMetadata({\n        type: metadata.type,\n        isComponent: metadata.isComponent,\n        selector: metadata.selector,\n        exportAs: metadata.exportAs,\n        changeDetection: metadata.changeDetection,\n        inputs: metadata.inputs,\n        outputs: metadata.outputs,\n        hostListeners: metadata.hostListeners,\n        hostProperties: metadata.hostProperties,\n        hostAttributes: metadata.hostAttributes,\n        providers: metadata.providers,\n        viewProviders: metadata.viewProviders,\n        queries: metadata.queries,\n        viewQueries: metadata.viewQueries,\n        entryComponents: metadata.entryComponents,\n        template: templateMetadata\n      });\n      this._directiveCache.set(directiveType, normalizedDirMeta);\n      this._summaryCache.set(directiveType, normalizedDirMeta.toSummary());\n      return normalizedDirMeta;\n    };\n    if (metadata.isComponent) {\n      const /** @type {?} */ templateMeta = this._directiveNormalizer.normalizeTemplate({\n        componentType: directiveType,\n        moduleName: componentModuleUrl(this._reflector, directiveType, annotation),\n        encapsulation: metadata.template.encapsulation,\n        template: metadata.template.template,\n        templateUrl: metadata.template.templateUrl,\n        styles: metadata.template.styles,\n        styleUrls: metadata.template.styleUrls,\n        animations: metadata.template.animations,\n        interpolation: metadata.template.interpolation\n      });\n      if (templateMeta.syncResult) {\n        createDirectiveMetadata(templateMeta.syncResult);\n        return null;\n      } else {\n        if (isSync) {\n          this._reportError(new ComponentStillLoadingError(directiveType), directiveType);\n          return null;\n        }\n        return templateMeta.asyncResult.then(createDirectiveMetadata);\n      } else {\n        // directive\n        createDirectiveMetadata(null);\n        return null;\n      }\n    }\n    /**\n     * @param {?} directiveType\n     * @return {?} */\n    *\/\n    getNonNormalizedDirectiveMetadata(directiveType: any): {\n      annotation: Directive, metadata: cpl.CompileDirectiveMetadata\n    } {\n      directiveType = resolveForwardRef(directiveType);\n      const /** @type {?} */ dirMeta = this._directiveResolver.resolve(directiveType);\n      if (!dirMeta) {\n        return null;\n      }\n      let /** @type {?} */ nonNormalizedTemplateMetadata: cpl.CompileTemplateMetadata;\n      if (dirMeta instanceof Component) {\n        // component\n        assertArrayOfStrings('styles', dirMeta.styles);\n        assertArrayOfStrings('styleUrls', dirMeta.styleUrls);\n        assertInterpolationSymbols('interpolation', dirMeta.interpolation);\n        const /** @type {?} */ animations = dirMeta.animations ?\n          dirMeta.animations.map(e => this.getAnimationEntryMetadata(e)) :\n            null;\n        nonNormalizedTemplateMetadata = new cpl.CompileTemplateMetadata({\n          encapsulation: dirMeta.encapsulation,\n          template: dirMeta.template,\n          templateUrl: dirMeta.templateUrl,\n          styles: dirMeta.styles,\n          styleUrls: dirMeta.styleUrls,\n          animations: animations,\n          interpolation: dirMeta.interpolation\n        });\n      }\n      let /** @type {?} */ changeDetectionStrategy: ChangeDetectionStrategy = null;\n      let /** @type {?} */ viewProviders: cpl.CompileProviderMetadata[] = [];\n      let /** @type {?} */ entryComponentMetadata: cpl.CompileIdentifierMetadata[] = [];\n      let /** @type {?} */ selector = dirMeta.selector;\n      if (dirMeta instanceof Component) {\n        // Component\n        changeDetectionStrategy = dirMeta.changeDetection;\n        if (dirMeta.viewProviders) {\n          viewProviders = this._getProvidersMetadata(\n            dirMeta.viewProviders, entryComponentMetadata,\n            `viewProviders for\n            \"${stringifyType(directiveType)}\"`, [], directiveType);\n        }\n        if (dirMeta.entryComponents) {\n          entryComponentMetadata = flattenAndDedupeArray(dirMeta.entryComponents)\n            .map((type) => this._getIdentityMetadata(type))\n              .concat(entryComponentMetadata);\n        }\n        if (!selector) {\n          selector = this._schemaRegistry.getDefaultComponentElementName();\n        } else

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{\n // Directive\n if (!selector) {\n this._reportError(\n new SyntaxError(\n `Directive
${stringifyType(directiveType)} has no selector, please add it!`),\n directiveType);\n selector = 'error';\n
}\n }\n\n let /** @type {?} */ providers: cpl.CompileProviderMetadata[] = [];\n if
(isPresent(dirMeta.providers)) {\n providers = this._getProvidersMetadata(\n dirMeta.providers,
entryComponentMetadata,\n `providers for \"${stringifyType(directiveType)}\"`, [], directiveType);\n }\n
let /** @type {?} */ queries: cpl.CompileQueryMetadata[] = [];\n let /** @type {?} */ viewQueries:
cpl.CompileQueryMetadata[] = [];\n if (isPresent(dirMeta.queries)) {\n queries =
this._getQueriesMetadata(dirMeta.queries, false, directiveType);\n viewQueries =
this._getQueriesMetadata(dirMeta.queries, true, directiveType);\n }\n\n const /** @type {?} */ metadata =
cpl.CompileDirectiveMetadata.create({\n selector: selector,\n exportAs: dirMeta.exportAs,\n isComponent:
!!nonNormalizedTemplateMetadata,\n type: this._getTypeMetadata(directiveType),\n template:
nonNormalizedTemplateMetadata,\n changeDetection: changeDetectionStrategy,\n inputs: dirMeta.inputs,\n
outputs: dirMeta.outputs,\n host: dirMeta.host,\n providers: providers,\n viewProviders: viewProviders,\n
queries: queries,\n viewQueries: viewQueries,\n entryComponents: entryComponentMetadata\n });\n
return {metadata, annotation: dirMeta};\n }\n\n /**\n * Gets the metadata for the given directive.\n * This assumes
`loadNgModuleMetadata` has been called first.\n * @param {?} directiveType\n * @return {?} */\n
*getDirectiveMetadata(directiveType: any): cpl.CompileDirectiveMetadata {\n const /** @type {?} */ dirMeta
= this._directiveCache.get(directiveType);\n if (!dirMeta) {\n this._reportError(\n new SyntaxError(\n
`Illegal state: getDirectiveMetadata can only be called after loadNgModuleMetadata for a module that declares it.
Directive ${stringifyType(directiveType)}.`),\n directiveType);\n }\n return dirMeta;\n }\n\n /**\n *
@param {?} dirType\n * @return {?} */\n *getDirectiveSummary(dirType: any): cpl.CompileDirectiveSummary
{\n const /** @type {?} */ dirSummary = /** @type {?} */ ((\n
<cpl.CompileDirectiveSummary>this._loadSummary(dirType, cpl.CompileSummaryKind.Directive));\n if
(!dirSummary) {\n this._reportError(\n new SyntaxError(\n `Illegal state: Could not load the
summary for directive ${stringifyType(dirType)}.`),\n dirType);\n }\n return dirSummary;\n }\n\n /**\n *
@param {?} type\n * @return {?} */\n *isDirective(type: any) {\n return this._directiveResolver.isDirective(type);\n
}\n\n /**\n * @param {?} type\n * @return {?} */\n *isPipe(type: any) {\n return this._pipeResolver.isPipe(type);\n
}\n\n /**\n * @param {?} moduleType\n * @return {?} */\n *getNgModuleSummary(moduleType: any):
cpl.CompileNgModuleSummary {\n let /** @type {?} */ moduleSummary = /** @type {?} */ ((\n
<cpl.CompileNgModuleSummary>this._loadSummary(moduleType, cpl.CompileSummaryKind.NgModule));\n
if (!moduleSummary) {\n const /** @type {?} */ moduleMeta = this.getNgModuleMetadata(moduleType,
false);\n moduleSummary = moduleMeta ? moduleMeta.toSummary() : null;\n if (moduleSummary) {\n
this._summaryCache.set(moduleType, moduleSummary);\n }\n }\n return moduleSummary;\n }\n\n /**\n *
Loads the declared directives and pipes of an NgModule.\n * @param {?} moduleType\n * @param {?} isSync\n *
@param {?} throwIfNotFound\n * @return {?} */\n *loadNgModuleDirectiveAndPipeMetadata(moduleType:
any, isSync: boolean, throwIfNotFound = true):\n Promise<any> {\n const /** @type {?} */ ngModule =
this.getNgModuleMetadata(moduleType, throwIfNotFound);\n const /** @type {?} */ loading: Promise<any>[] =
[];\n if (ngModule) {\n ngModule.declaredDirectives.forEach((id) => {\n const /** @type {?} */ promise
= this._loadDirectiveMetadata(id.reference, isSync);\n if (promise) {\n loading.push(promise);\n }\n
});\n ngModule.declaredPipes.forEach((id) => this._loadPipeMetadata(id.reference));\n }\n return
Promise.all(loading);\n }\n\n /**\n * @param {?} moduleType\n * @param {?} throwIfNotFound\n * @return {?} */\n
*getNgModuleMetadata(moduleType: any, throwIfNotFound = true): cpl.CompileNgModuleMetadata {\n
moduleType = resolveForwardRef(moduleType);\n let /** @type {?} */ compileMeta =
this._ngModuleCache.get(moduleType);\n if (compileMeta) {\n return compileMeta;\n }\n const /** @type
{?} */ meta = this._ngModuleResolver.resolve(moduleType, throwIfNotFound);\n if (!meta) {\n return null;\n
}\n const /** @type {?} */ declaredDirectives: cpl.CompileIdentifierMetadata[] = [];\n const /** @type {?} */
exportedNonModuleIdentifiers: cpl.CompileIdentifierMetadata[] = [];\n const /** @type {?} */ declaredPipes:
cpl.CompileIdentifierMetadata[] = [];\n const /** @type {?} */ importedModules:

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cpl.CompileNgModuleSummary[] = [];
const /** @type {?} */ exportedModules:
cpl.CompileNgModuleSummary[] = [];
const /** @type {?} */ providers: cpl.CompileProviderMetadata[] =
[];
const /** @type {?} */ entryComponents: cpl.CompileIdentifierMetadata[] = [];
const /** @type {?} */ bootstrapComponents: cpl.CompileIdentifierMetadata[] = [];
const /** @type {?} */ schemas:
SchemaMetadata[] = [];
if (meta.imports) {
  flattenAndDedupeArray(meta.imports).forEach((importedType) => {
    let /** @type {?} */
importedModuleType: Type<any>;
    if (isValidType(importedType)) {
      importedModuleType =
importedType;
    } else if (importedType && importedType.ngModule) {
      const /** @type {?} */
moduleWithProviders: ModuleWithProviders = importedType;
      importedModuleType =
moduleWithProviders.ngModule;
      if (moduleWithProviders.providers) {
        providers.push(...this._getProvidersMetadata(
moduleWithProviders.providers, entryComponents,
`provider for the NgModule '${stringifyType(importedModuleType)}'`, [],
importedType));
      }
    }
    if (importedModuleType) {
      const /** @type {?} */ importedModuleSummary =
this.getNgModuleSummary(importedModuleType);
      if (!importedModuleSummary) {
        this._reportError(
new SyntaxError(
`Unexpected
${this._getTypeDescriptor(importedType)} '${stringifyType(importedType)}' imported by the module
${stringifyType(moduleType)}`,
moduleType);
        return;
      }
      importedModules.push(importedModuleSummary);
    } else {
      this._reportError(
new
SyntaxError(
`Unexpected value '${stringifyType(importedType)}' imported by the module
${stringifyType(moduleType)}`,
moduleType);
      return;
    }
  });
  if (meta.exports) {
    flattenAndDedupeArray(meta.exports).forEach((exportedType) => {
      if (!isValidType(exportedType)) {
        this._reportError(
new SyntaxError(
`Unexpected
value '${stringifyType(exportedType)}' exported by the module '${stringifyType(moduleType)}'`,
moduleType);
        return;
      }
      const /** @type {?} */ exportedModuleSummary =
this.getNgModuleSummary(exportedType);
      if (exportedModuleSummary) {
        exportedModules.push(exportedModuleSummary);
      } else {
        exportedNonModuleIdentifiers.push(
this._getIdentifierMetadata(exportedType));
      }
    });
  }
  // Note: This will be modified later, so we rely on
// getting a new instance every time!
const /** @type {?} */
transitiveModule = this._getTransitiveNgModuleMetadata(importedModules, exportedModules);
if (meta.declarations) {
  flattenAndDedupeArray(meta.declarations).forEach((declaredType) => {
    if (!isValidType(declaredType)) {
      this._reportError(
new SyntaxError(
`Unexpected
value '${stringifyType(declaredType)}' declared by the module '${stringifyType(moduleType)}'`,
moduleType);
      return;
    }
    const /** @type {?} */ declaredIdentifier =
this._getIdentifierMetadata(declaredType);
    if (this._directiveResolver.isDirective(declaredType)) {
      transitiveModule.addDirective(declaredIdentifier);
      declaredDirectives.push(declaredIdentifier);
    }
    this._addTypeToModule(declaredType, moduleType);
  } else if (this._pipeResolver.isPipe(declaredType)) {
    transitiveModule.addPipe(declaredIdentifier);
    transitiveModule.pipes.push(declaredIdentifier);
  }
  declaredPipes.push(declaredIdentifier);
  this._addTypeToModule(declaredType, moduleType);
} else {
  this._reportError(
new SyntaxError(
`Unexpected
${this._getTypeDescriptor(declaredType)} '${stringifyType(declaredType)}' declared by the module
${stringifyType(moduleType)}`,
moduleType);
  return;
});
}
const /**
@type {?} */ exportedDirectives: cpl.CompileIdentifierMetadata[] = [];
const /** @type {?} */ exportedPipes:
cpl.CompileIdentifierMetadata[] = [];
exportedNonModuleIdentifiers.forEach((exportedId) => {
  if (transitiveModule.directivesSet.has(exportedId.reference)) {
    exportedDirectives.push(exportedId);
    transitiveModule.addExportedDirective(exportedId);
  } else if (transitiveModule.pipesSet.has(exportedId.reference)) {
    exportedPipes.push(exportedId);
    transitiveModule.addExportedPipe(exportedId);
  } else {
    this._reportError(
new SyntaxError(
`Can't export ${this._getTypeDescriptor(exportedId.reference)}
${stringifyType(exportedId.reference)} from

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    ${stringifyType(moduleType)} as it was neither declared nor imported!`),\n        moduleType);\n    }\n  });\n\n  // The providers of the module have to go last\n  // so that they overwrite any other provider we already added.\n  if (meta.providers) {\n    providers.push(...this._getProvidersMetadata(\n      meta.providers, entryComponents,\n      `provider for the NgModule '${stringifyType(moduleType)}'`, [], moduleType));\n  }\n  if\n  (meta.entryComponents) {\n    entryComponents.push(...flattenAndDedupeArray(meta.entryComponents)\n      .map(type => this._getIdentiferMetadata(type)));\n  }\n  if (meta.bootstrap) {\n    flattenAndDedupeArray(meta.bootstrap).forEach(type => {\n      if (!isValidType(type)) {\n        this._reportError(\n          new SyntaxError(\n            `Unexpected value '${stringifyType(type)}' used in the\n            bootstrap property of module '${stringifyType(moduleType)}'`),\n          moduleType);\n        return;\n      }\n      bootstrapComponents.push(this._getIdentiferMetadata(type));\n    });\n  }\n  entryComponents.push(...bootstrapComponents);\n  if (meta.schemas) {\n    schemas.push(...flattenAndDedupeArray(meta.schemas));\n  }\n  compileMeta = new\n  cpl.CompileNgModuleMetadata({\n    type: this._getTypeMetadata(moduleType),\n    providers,\n    entryComponents,\n    bootstrapComponents,\n    schemas,\n    declaredDirectives,\n    exportedDirectives,\n    declaredPipes,\n    exportedPipes,\n    importedModules,\n    exportedModules,\n    transitiveModule,\n    id:\n    meta.id,\n  });\n  entryComponents.forEach((id) => transitiveModule.addEntryComponent(id));\n  providers.forEach((provider) => transitiveModule.addProvider(provider, compileMeta.type));\n  transitiveModule.addModule(compileMeta.type);\n  this._ngModuleCache.set(moduleType, compileMeta);\n  return compileMeta;\n}\n\n/**\n * @param {?} type\n * @return {?} */\nprivate _getTypeDescriptor(type:\n  Type<any>): string {\n  if (this._directiveResolver.isDirective(type)) {\n    return 'directive';\n  }\n  if\n  (this._pipeResolver.isPipe(type)) {\n    return 'pipe';\n  }\n  if (this._ngModuleResolver.isNgModule(type)) {\n    return 'module';\n  }\n  if ((/** @type {?} */((type as any))).provide) {\n    return 'provider';\n  }\n  return 'value';\n}\n\n/**\n * @param {?} type\n * @param {?} moduleType\n * @return {?} */\nprivate\n_addTypeToModule(type: Type<any>, moduleType: Type<any>) {\n  const /** @type {?} */ oldModule =\n  this._ngModuleOfTypes.get(type);\n  if (oldModule && oldModule !== moduleType) {\n    this._reportError(\n      new SyntaxError(\n        `Type ${stringifyType(type)} is part of the declarations of 2 modules:\n        ${stringifyType(oldModule)} and ${stringifyType(moduleType)}!` +\n        `Please consider moving\n        ${stringifyType(type)} to a higher module that imports ${stringifyType(oldModule)} and\n        ${stringifyType(moduleType)}.` +\n        `You can also create a new NgModule that exports and includes\n        ${stringifyType(type)} then import that NgModule in ${stringifyType(oldModule)} and\n        ${stringifyType(moduleType)}.`),\n      moduleType);\n  }\n  this._ngModuleOfTypes.set(type,\n    moduleType);\n}\n\n/**\n * @param {?} importedModules\n * @param {?} exportedModules\n * @return {?} */\nprivate _getTransitiveNgModuleMetadata(\n  importedModules: cpl.CompileNgModuleSummary[],\n  exportedModules: cpl.CompileNgModuleSummary[]): cpl.TransitiveCompileNgModuleMetadata {\n  // collect\n  `providers` `entryComponents` from all imported and all exported modules\n  const /** @type {?} */ result =\n  new cpl.TransitiveCompileNgModuleMetadata();\n  const /** @type {?} */ modulesByToken = new Map<any,\n  Set<any>>();\n  importedModules.concat(exportedModules).forEach((modSummary) => {\n    modSummary.modules.forEach((mod) => result.addModule(mod));\n    modSummary.entryComponents.forEach((comp) => result.addEntryComponent(comp));\n    const /** @type {?} */\n    addedTokens = new Set<any>();\n    modSummary.providers.forEach((entry) => {\n      const /** @type {?} */\n      tokenRef = cpl.tokenReference(entry.provider.token);\n      let /** @type {?} */ prevModules =\n      modulesByToken.get(tokenRef);\n      if (!prevModules) {\n        prevModules = new Set<any>();\n        modulesByToken.set(tokenRef, prevModules);\n      }\n      const /** @type {?} */ moduleRef =\n      entry.module.reference;\n      // Note: the providers of one module may still contain multiple providers\n      // per\n      token (e.g. for multi providers), and we need to preserve these.\n      if (addedTokens.has(tokenRef) ||\n        !prevModules.has(moduleRef)) {\n        prevModules.add(moduleRef);\n        addedTokens.add(tokenRef);\n        result.addProvider(entry.provider, entry.module);\n      }\n    });\n  });\n  exportedModules.forEach((modSummary) => {\n    modSummary.exportedDirectives.forEach((id) =>

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result.addExportedDirective(id));\n    modSummary.exportedPipes.forEach((id) => result.addExportedPipe(id));\n
});\n    importedModules.forEach((modSummary) => {\n    modSummary.exportedDirectives.forEach((id) =>
result.addDirective(id));\n    modSummary.exportedPipes.forEach((id) => result.addPipe(id));\n    });\n    return
result;\n    }\n\n/**\n * @param {?} type\n * @return {?} \n * \nprivate _getIdentifierMetadata(type: Type<any>):
cpl.CompileIdentifierMetadata {\n    type = resolveForwardRef(type);\n    return {reference: type};\n    }\n\n/**\n *
@param {?} type\n * @return {?} \n * \nprivate _getInjectableMetadata(type: any): boolean {\n    const /** @type {?} */ annotations =
this._reflector.annotations(type);\n    // Note: We need an exact check here as @Component / @Directive / ...
inherit\n // from @CompilerInjectable!\n    return annotations.some(ann => ann.constructor === Injectable);\n
}\n\n/**\n * @param {?} type\n * @return {?} \n * \nprivate _getInjectableSummary(type: any): cpl.CompileTypeSummary
{\n    return {summaryKind: cpl.CompileSummaryKind.Injectable, type: this._getTypeMetadata(type)};\n    }\n\n/**\n *
@param {?} type\n * @param {?} dependencies\n * @return {?} \n * \nprivate _getInjectableMetadata(type:
Type<any>, dependencies: any[] = null):\n    cpl.CompileTypeMetadata {\n    const /** @type {?} */
typeSummary = this._loadSummary(type, cpl.CompileSummaryKind.Injectable);\n    if (typeSummary) {\n
return typeSummary.type;\n    }\n    return this._getTypeMetadata(type, dependencies);\n    }\n\n/**\n * @param {?}
type\n * @param {?} dependencies\n * @return {?} \n * \nprivate _getTypeMetadata(type: Type<any>,
dependencies: any[] = null): cpl.CompileTypeMetadata {\n    const /** @type {?} */ identifier =
this._getIdentifierMetadata(type);\n    return {\n        reference: identifier.reference,\n        diDeps:
this._getDependenciesMetadata(identifier.reference, dependencies),\n        lifecycleHooks:\n        LIFECYCLE_HOOKS_VALUES.filter(hook => hasLifecycleHook(hook, identifier.reference)),\n        };\n    }\n\n/**\n *
@param {?} factory\n * @param {?} dependencies\n * @return {?} \n * \nprivate _getFactoryMetadata(factory:
Function, dependencies: any[] = null):\n    cpl.CompileFactoryMetadata {\n        factory =
resolveForwardRef(factory);\n        return {reference: factory, diDeps: this._getDependenciesMetadata(factory,
dependencies)};\n    }\n\n/**\n * Gets the metadata for the given pipe.\n * This assumes `loadNgModuleMetadata`
has been called first.\n * @param {?} pipeType\n * @return {?} \n * \nprivate _getPipeMetadata(pipeType: any):
cpl.CompilePipeMetadata {\n    const /** @type {?} */ pipeMeta = this._pipeCache.get(pipeType);\n    if
(!pipeMeta) {\n        this._reportError(\n            new SyntaxError(\n                `Illegal state: getPipeMetadata can only be
called after loadNgModuleMetadata for a module that declares it. Pipe ${stringifyType(pipeType)}.`),\n            pipeType);\n    }\n    return pipeMeta;\n    }\n\n/**\n * @param {?} pipeType\n * @return {?} \n
*\nprivate _getPipeSummary(pipeType: any): cpl.CompilePipeSummary {\n    const /** @type {?} */ pipeSummary = /**
@type {?} */((\n        <cpl.CompilePipeSummary>this._loadSummary(pipeType,
cpl.CompileSummaryKind.Pipe));\n    if (!pipeSummary) {\n        this._reportError(\n            new SyntaxError(\n
                `Illegal state: Could not load the summary for pipe ${stringifyType(pipeType)}.`),\n            pipeType);\n    }\n
return pipeSummary;\n    }\n\n/**\n * @param {?} pipeType\n * @return {?} \n * \nprivate _getOrLoadPipeMetadata(pipeType:
any): cpl.CompilePipeMetadata {\n    let /** @type {?} */ pipeMeta = this._pipeCache.get(pipeType);\n    if
(!pipeMeta) {\n        pipeMeta = this._loadPipeMetadata(pipeType);\n    }\n    return pipeMeta;\n    }\n\n/**\n * @param
{?} pipeType\n * @return {?} \n * \nprivate _loadPipeMetadata(pipeType: any): cpl.CompilePipeMetadata {\n
    pipeType = resolveForwardRef(pipeType);\n    const /** @type {?} */ pipeAnnotation =
this._pipeResolver.resolve(pipeType);\n    const /** @type {?} */ pipeMeta = new cpl.CompilePipeMetadata({\n
        type: this._getTypeMetadata(pipeType),\n        name: pipeAnnotation.name,\n        pure: pipeAnnotation.pure\n
});\n    this._pipeCache.set(pipeType, pipeMeta);\n    this._summaryCache.set(pipeType, pipeMeta.toSummary());\n
return pipeMeta;\n    }\n\n/**\n * @param {?} typeOrFunc\n * @param {?} dependencies\n * @return {?} \n
*\nprivate _getDependenciesMetadata(typeOrFunc: Type<any>|Function, dependencies: any[]):\n    cpl.CompileDiDependencyMetadata[] {\n    let /** @type {?} */ hasUnknownDeps = false;\n    const /** @type {?} */
params = dependencies || this._reflector.parameters(typeOrFunc) || [];\n    const /** @type {?} */
dependenciesMetadata: cpl.CompileDiDependencyMetadata[] = params.map((param) => {\n        let /** @type {?} */
isAttribute = false;\n        let /** @type {?} */ isHost = false;\n        let /** @type {?} */ isSelf = false;\n        let /**
@type {?} */ isSkipSelf = false;\n        let /** @type {?} */ isOptional = false;\n        let /** @type {?} */ token: any =
null;\n        if (Array.isArray(param)) {\n            param.forEach((paramEntry) => {\n                if (paramEntry instanceof

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Host) {\n      isHost = true;\n    } else if (paramEntry instanceof Self) {\n      isSelf = true;\n    } else if
(paramEntry instanceof SkipSelf) {\n      isSkipSelf = true;\n    } else if (paramEntry instanceof Optional) {\n
      isOptional = true;\n    } else if (paramEntry instanceof Attribute) {\n      isAttribute = true;\n
token = paramEntry.attributeName;\n    } else if (paramEntry instanceof Inject) {\n      token =
paramEntry.token;\n    } else if (isValidType(paramEntry) && isBlank(token)) {\n      token = paramEntry;\n
    }\n  });\n } else {\n   token = param;\n }\n   if (isBlank(token)) {\n     hasUnknownDeps =
true;\n     return null;\n   }\n   return {\n     isAttribute,\n     isHost,\n     isSelf,\n     isSkipSelf,\n
isOptional,\n     token: this._getTokenMetadata(token)\n   };\n }\n }\n   if (hasUnknownDeps) {\n     const
/** @type {?} */ depsTokens =\n     dependenciesMetadata.map((dep) => dep ? stringifyType(dep.token) :
'').join(', ');\n     this._reportError(\n       new SyntaxError(\n         `Can't resolve all parameters for
${stringifyType(typeOrFunc)}: (${depsTokens}).`,\n         typeOrFunc);\n     )\n     return
dependenciesMetadata;\n   }\n   /**\n * @param {?} token\n * @return {?} */\n private _getTokenMetadata(token:
any): cpl.CompileTokenMetadata {\n     token = resolveForwardRef(token);\n     let /** @type {?} */ compileToken:
cpl.CompileTokenMetadata;\n     if (typeof token === 'string') {\n       compileToken = {value: token};\n     } else {\n
compileToken = {identifier: {reference: token}};\n     }\n     return compileToken;\n   }\n   /**\n * @param {?}
providers\n * @param {?} targetEntryComponents\n * @param {?=} debugInfo\n * @param {?=}
compileProviders\n * @param {?=} type\n * @return {?} */\n private _getProvidersMetadata(\n     providers:
Provider[], targetEntryComponents: cpl.CompileIdentifierMetadata[],\n     debugInfo?: string, compileProviders:
cpl.CompileProviderMetadata[] = [],\n     type?: any): cpl.CompileProviderMetadata[] {\n
providers.forEach((provider: any, providerIdx: number) => {\n     if (Array.isArray(provider)) {\n
this._getProvidersMetadata(provider, targetEntryComponents, debugInfo, compileProviders);\n     } else {\n
provider = resolveForwardRef(provider);\n     let /** @type {?} */ providerMeta: cpl.ProviderMeta;\n     if
(provider && typeof provider === 'object' && provider.hasOwnProperty('provide')) {\n       providerMeta = new
cpl.ProviderMeta(provider.provide, provider);\n     } else if (isValidType(provider)) {\n       providerMeta = new
cpl.ProviderMeta(provider, {useClass: provider});\n     } else {\n       const /** @type {?} */ providersInfo =\n
(/** @type {?} */ ((<string[]>providers.reduce(\n         (soFar: string[], seenProvider: any,
seenProviderIdx: number) => {\n           if (seenProviderIdx < providerIdx) {\n
soFar.push(`${stringifyType(seenProvider)}`);\n           } else if (seenProviderIdx === providerIdx) {\n
soFar.push(`${stringifyType(seenProvider)}?`);\n           } else if (seenProviderIdx === providerIdx + 1) {\n
soFar.push('...');\n           }\n           return soFar;\n         },\n         [])));\n       join(', ');
this._reportError(\n         new SyntaxError(\n           `Invalid ${debugInfo ?
debugInfo : 'provider'} - only instances of Provider and Type are allowed, got: [${providersInfo}]`,\n
type);\n     }\n     if (providerMeta.token ===
resolveIdentifier(Identifiers.ANALYZE_FOR_ENTRY_COMPONENTS)) {\n
targetEntryComponents.push(...this._getEntryComponentsFromProvider(providerMeta, type));\n     } else {\n
compileProviders.push(this.getProviderMetadata(providerMeta));\n     }\n     }\n     return
compileProviders;\n   }\n   /**\n * @param {?} provider\n * @param {?=} type\n * @return {?} */\n private
_getEntryComponentsFromProvider(provider: cpl.ProviderMeta, type?: any):\n   cpl.CompileIdentifierMetadata[] {\n
const /** @type {?} */ components: cpl.CompileIdentifierMetadata[] = [];\n     const /** @type {?} */
collectedIdentifiers: cpl.CompileIdentifierMetadata[] = [];\n     if (provider.useFactory || provider.useExisting ||
provider.useClass) {\n       this._reportError(\n         new SyntaxError(`The
ANALYZE_FOR_ENTRY_COMPONENTS token only supports useValue!`), type);\n       return [];\n     }\n     if
(!provider.multi) {\n       this._reportError(\n         new SyntaxError(`The
ANALYZE_FOR_ENTRY_COMPONENTS token only supports 'multi = true!`),\n         type);\n       return [];\n     }\n
}\n     extractIdentifiers(provider.useValue, collectedIdentifiers);\n     collectedIdentifiers.forEach((identifier) =>
{\n       if (this._directiveResolver.isDirective(identifier.reference) ||\n         this._loadSummary(identifier.reference,
cpl.CompileSummaryKind.Directive)) {\n         components.push(identifier);\n       }\n     });\n     return components;\n
}\n   /**\n * @param {?} provider\n * @return {?} */\n private _getProviderMetadata(provider: cpl.ProviderMeta):

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cpl.CompileProviderMetadata {\n  let /** @type {?} */ compileDeps: cpl.CompileDiDependencyMetadata[];\n
let /** @type {?} */ compileTypeMetadata: cpl.CompileTypeMetadata = null;\n  let /** @type {?} */\n
compileFactoryMetadata: cpl.CompileFactoryMetadata = null;\n  let /** @type {?} */ token:\n
cpl.CompileTokenMetadata = this._getTokenMetadata(provider.token);\n  if (provider.useClass) {\n
compileTypeMetadata = this._getInjectableMetadata(provider.useClass, provider.dependencies);\n  compileDeps\n
= compileTypeMetadata.diDeps;\n  if (provider.token === provider.useClass) {\n    // use the\n
compileTypeMetadata as it contains information about lifecycleHooks...\n    token = {identifier:\n
compileTypeMetadata};\n  }\n  } else if (provider.useFactory) {\n  compileFactoryMetadata =\n
this._getFactoryMetadata(provider.useFactory, provider.dependencies);\n  compileDeps =\n
compileFactoryMetadata.diDeps;\n  }\n  }\n  return {\n  token: token,\n  useClass: compileTypeMetadata,\n
useValue: provider.useValue,\n  useFactory: compileFactoryMetadata,\n  useExisting: provider.useExisting ?\n
this._getTokenMetadata(provider.useExisting) : null,\n  deps: compileDeps,\n  multi: provider.multi\n  };\n
}\n/**\n * @param {?} queries\n * @param {?} isViewQuery\n * @param {?} directiveType\n * @return {?}\n
*\nprivate _getQueriesMetadata(\n  queries: {[key: string]: Query}, isViewQuery: boolean,\n  directiveType:\n
Type<any>): cpl.CompileQueryMetadata[] {\n  const /** @type {?} */ res: cpl.CompileQueryMetadata[] = [];\n
Object.keys(queries).forEach((propertyName: string) => {\n  const /** @type {?} */ query =\n
queries[propertyName];\n  if (query.isViewQuery === isViewQuery) {\n
res.push(this._getQueryMetadata(query, propertyName, directiveType));\n  }\n  });\n  }\n  return res;\n
}\n/**\n * @param {?} selector\n * @return {?}\n
*\nprivate _queryVarBindings(selector: any): string[] { return\n
selector.split(/\\s*,\\s*/); }\n/**\n * @param {?} q\n * @param {?} propertyName\n * @param {?} typeOrFunc\n
*\n * @return {?}\n
*\nprivate _getQueryMetadata(q: Query, propertyName: string, typeOrFunc:\n
Type<any>|Function):\n  cpl.CompileQueryMetadata {\n  let /** @type {?} */ selectors:\n
cpl.CompileTokenMetadata[];\n  if (typeof q.selector === 'string') {\n  selectors =\n
this._queryVarBindings(q.selector).map(varName => this._getTokenMetadata(varName));\n  } else {\n  if\n
(!q.selector) {\n  this._reportError(\n    new SyntaxError(\n      `Can't construct a query for the\n
property \"${propertyName}\" of \"${stringifyType(typeOrFunc)}\" since the query selector wasn't defined.`),\n
    typeOrFunc);\n  }\n  selectors = [this._getTokenMetadata(q.selector)];\n  }\n  }\n  return {\n  selectors,\n
first: q.first,\n  descendants: q.descendants, propertyName,\n  read: q.read ? this._getTokenMetadata(q.read) :\n
null\n  };\n  }\n/**\n * @param {?} error\n * @param {?=} type\n * @param {?=} otherType\n * @return {?}\n
*\nprivate _reportError(error: any, type?: any, otherType?: any) {\n  if (this._errorCollector) {\n
this._errorCollector(error, type);\n  if (otherType) {\n  this._errorCollector(error, otherType);\n  }\n  } else\n
{\n  throw error;\n  }\n  }\n/** @nocollapse *\nstatic ctorParameters(): () => ({ type: any, decorators?:\n
DecoratorInvocation[]|null})[] = () => [\n  {type: NgModuleResolver, },\n  {type: DirectiveResolver, },\n  {type:\n
PipeResolver, },\n  {type: SummaryResolver, },\n  {type: ElementSchemaRegistry, },\n  {type: DirectiveNormalizer,\n
},\n  {type: ReflectorReader, },\n  {type: undefined, decorators: [{ type: Optional }, { type: Inject, args:\n
[ERROR_COLLECTOR_TOKEN, ] }, ]},\n  ],\n  ];\n  }\n\nfunction\n
CompileMetadataResolver_tsickle_Closure_declarations() {\n/**\n *\n * @nocollapse\n * @type {?}\n
*\n *\nprivate CompileMetadataResolver.ctorParameters;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._directiveCache;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._summaryCache;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._pipeCache;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._ngModuleCache;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._ngModuleOfTypes;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._ngModuleResolver;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._directiveResolver;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._pipeResolver;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._summaryResolver;\n/** @type {?}\n
*\n *\nprivate CompileMetadataResolver.prototype._schemaRegistry;\n/** @type {?}\n

```

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*\nCompileMetadataResolver.prototype._directiveNormalizer;\n /** @type {?}
*\nCompileMetadataResolver.prototype._reflector;\n /** @type {?}
*\nCompileMetadataResolver.prototype._errorCollector;\n\n\n/**\n * @param {?} tree\n * @param {?=} out\n * @return {?} \n *\nfunction flattenArray(tree: any[], out: Array<any> = []): Array<any> {\n if (tree) {\n for (let
/** @type {?} */ i = 0; i < tree.length; i++) {\n const /** @type {?} */ item = resolveForwardRef(tree[i]);\n if
(Array.isArray(item)) {\n flattenArray(item, out);\n } else {\n out.push(item);\n }\n }\n }\n return
out;\n}\n\n/**\n * @param {?} array\n * @return {?} \n *\nfunction dedupeArray(array: any[]): Array<any> {\n if
(array) {\n return Array.from(new Set(array));\n }\n }\n return [];\n}\n\n/**\n * @param {?} tree\n * @return {?} \n
*\nfunction flattenAndDedupeArray(tree: any[]): Array<any> {\n return
dedupeArray(flattenArray(tree));\n}\n\n/**\n * @param {?} value\n * @return {?} \n *\nfunction isValidType(value:
any): boolean {\n return (value instanceof StaticSymbol) || (value instanceof Type);\n}\n\n/**\n * @param {?}
reflector\n * @param {?} type\n * @param {?} cmpMetadata\n * @return {?} \n *\nfunction export function
componentModuleUrl(\n reflector: ReflectorReader, type: Type<any>, cmpMetadata: Component): string {\n if
(type instanceof StaticSymbol) {\n return type.filePath;\n }\n }\n const /** @type {?} */ moduleId =
cmpMetadata.moduleId;\n\n if (typeof moduleId === 'string') {\n const /** @type {?} */ scheme =
getUrlScheme(moduleId);\n return scheme ? moduleId : `package:${moduleId}${MODULE_SUFFIX}`;\n } else
if (moduleId !== null && moduleId !== void 0) {\n throw new SyntaxError(`\n `moduleId should be a string in
`"${stringifyType(type)}"`. See https://goo.gl/wIDDiL for more information.\n ` +\n `If you're using Webpack
you should inline the template and the styles, see https://goo.gl/X2J8zc.`);\n }\n }\n return
reflector.importUri(type);\n}\n\n/**\n * @param {?} value\n * @param {?} targetIdentifiers\n * @return {?} \n
*\nfunction extractIdentifiers(value: any, targetIdentifiers: cpl.CompileIdentifierMetadata[]) {\n visitValue(value,
new _CompileValueConverter(), targetIdentifiers);\n}\n\ninterface _CompileValueConverter extends ValueTransformer
{\n\n/**\n * @param {?} value\n * @param {?} targetIdentifiers\n * @return {?} \n *\nfunction visitOther(value: any,
targetIdentifiers: cpl.CompileIdentifierMetadata[]): any {\n targetIdentifiers.push({reference: value});\n
}\n}\n\n/**\n * @param {?} type\n * @return {?} \n *\nfunction stringifyType(type: any): string {\n if (type
instanceof StaticSymbol) {\n return `${type.name} in ${type.filePath}`;\n } else {\n return stringify(type);\n
}\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/metadata\_resolver.js.map

No license file was found, but licenses were detected in source scan.

```

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er_util/identifier_util.ts"],"names":[],"mappings":":AAAA;:::;GAMG;OAGI,EAAC,SAAS,EAAC,MAAM,gBAAG
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AAC,MAAM,GAAG,WAAW,CAAC,YAAY,CAAC,KAAC,CAAC;QACChD,WAAW,CAAC,kBAaKB,CAAC;IA
ChG,IAAM,gBAAGB,CAAC,UAAU,GAAG,gBAAGB,CAAC,cAAc,CAAC,CAAC;IACrE,MAAM,CAAC,CAAC,
CAAC,UAAU,CAAC,UAAU,CAAC,CAAC,WAAW,CAAC,CAaKB,CAC9C,CAAC,CAAC,OAAO,CAAC,MAA
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```

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ACzE,CAAC;IACD,MAAM,CAAC,CAAC,CAAC,CAAU,CAAC,oBAAoB,CAAC,QAAQ,EAAE,QAAQ,CAAC,
CAAC,CAAC;AACH,CAAC", "sourcesContent": ["/*\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\nimport {CompileTokenMetadata} from
'./compile_metadata';\nimport {isPresent} from './facade/lang';\nimport {IdentifierSpec, Identifiers,
createEnumIdentifier, createIdentifier} from './identifiers';\nimport * as o from './output/output_ast';\n/**\n *
@param {?} token\n * @return {?}\n *\nexport function createDiTokenExpression(token:
CompileTokenMetadata): o.Expression {\n  if (isPresent(token.value)) {\n    return o.literal(token.value);\n  } else
{\n    return o.importExpr(token.identifier);\n  }\n}\n/**\n * @param {?} values\n * @return {?}\n *\nexport
function createInlineArray(values: o.Expression[]): o.Expression {\n  if (values.length === 0) {\n    return
o.importExpr(createIdentifier(Identifiers.EMPTY_INLINE_ARRAY));\n  }\n  const /** @type {?} */ log2 =
Math.log(values.length) / Math.log(2);\n  const /** @type {?} */ index = Math.ceil(log2);\n  const /** @type {?} */
identifierSpec = index < Identifiers.inlineArrays.length ? Identifiers.inlineArrays[index] :\n    Identifiers.InlineArrayDynamic;\n  const /** @type {?} */ identifier =
createIdentifier(identifierSpec);\n  return o.importExpr(identifier).instantiate([ /** @type {?} */ ((\n
<o.Expression>o.literal(values.length)))\n ].concat(values));\n}\n\n/**\n * @param {?} fn\n * @param {?}
argCount\n * @param {?} pureProxyProp\n * @param {?} builder\n * @return {?}\n *\nexport function
createPureProxy(\n  fn: o.Expression, argCount: number, pureProxyProp: o.ReadPropExpr,\n  builder: {fields:
o.ClassField[], ctorStmts: {push: (stmt: o.Statement) => void}}) {\n  builder.fields.push(new
o.ClassField(pureProxyProp.name, null));\n  const /** @type {?} */ pureProxyId =\n    argCount <
Identifiers.pureProxies.length ? Identifiers.pureProxies[argCount] : null;\n  if (!pureProxyId) {\n    throw new
Error(`Unsupported number of argument for pure functions: ${argCount}`);\n  }\n
builder.ctorStmts.push(o.THIS_EXPR.prop(pureProxyProp.name)\n
.set(o.importExpr(createIdentifier(pureProxyId)).callFn([fn]))\n
.toStmt());\n}\n\n/**\n * @param
{?} enumType\n * @param {?} enumValue\n * @return {?}\n *\nexport function
createEnumExpression(enumType: IdentifierSpec, enumValue: any): o.Expression {\n  const /** @type {?} */
enumName =\n    Object.keys(enumType.runtime).find((propName) => enumType.runtime[propName] ===
enumValue);\n  if (!enumName) {\n    throw new Error(`Unknown enum value ${enumValue} in
${enumType.name}`);\n  }\n  return o.importExpr(createEnumIdentifier(enumType, enumName));\n}\n\ninterface
DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n"}]

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/compiler_util/identifier_util.js.map

```

No license file was found, but licenses were detected in source scan.







C;IAAC,CAAC,IAAI,CAAC,IAAI,EAAE,CAAC;IAC/C,CAAC,GAAG,KAAK,CAAC,CAAC,EAAE,CAAC,CAA  
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CAAC;AACjB,CAAC", "sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\nimport * as i18n from './i18n_ast';\n/**\n * @param {?} message\n * @return
{?}\n */\nexport function digest(message: i18n.Message): string {\n  return
sha1(serializeNodes(message.nodes).join("") + `${message.meaning}`);\n}\n/**\n * @param {?} message\n *
@return {?} */\nexport function decimalDigest(message: i18n.Message): string {\n  const /** @type {?} */ visitor
= new _SerializerIgnoreIcuExpVisitor();\n  const /** @type {?} */ parts = message.nodes.map(a => a.visit(visitor,
null));\n  return computeMsgId(parts.join(""), message.meaning);\n}\n/**\n * Serialize the i18n ast to something
xml-like in order to generate an UID.\n * *\n * The visitor is also used in the i18n parser tests\n * *\n */\n\nclass
_SerializerVisitor implements i18n.Visitor {\n  /**\n * @param {?} text\n * @param {?} context\n * @return {?} */\n
visitText(text: i18n.Text, context: any): any {\n  return text.value;\n}\n  /**\n * @param {?} container\n * @param
{?} context\n * @return {?} */\n  visitContainer(container: i18n.Container, context: any): any {\n  return
`${container.children.map(child => child.visit(this)).join(' ')}`;\n}\n  /**\n * @param {?} icu\n * @param {?}
context\n * @return {?} */\n  visitIcu(icu: i18n.Icu, context: any): any {\n  const /** @type {?} */ strCases =\n
Object.keys(icu.cases).map((k: string) => `${k} ${icu.cases[k].visit(this)}`);\n  return `${icu.expression},
${icu.type}, ${strCases.join(' ')}`;\n}\n  /**\n * @param {?} ph\n * @param {?} context\n * @return {?} */\n
visitTagPlaceholder(ph: i18n.TagPlaceholder, context: any): any {\n  return ph.isVoid ?\n    `<ph tag
name="\${ph.startName}" />`;\n    `<ph tag name="\${ph.startName}">${ph.children.map(child =>
child.visit(this)).join(' ')}</ph name="\${ph.closeName}">`;\n}\n  /**\n * @param {?} ph\n * @param {?}
context\n * @return {?} */\n  visitPlaceholder(ph: i18n.Placeholder, context: any): any {\n  return ph.value ? `<ph
name="\${ph.name}">${ph.value}</ph>`;\n    `<ph name="\${ph.name}" />`;\n}\n  /**\n * @param {?} ph\n *
@param {=?} context\n * @return {?} */\n  visitIcuPlaceholder(ph: i18n.IcuPlaceholder, context?: any): any {\n
return `<ph icu name="\${ph.name}">${ph.value.visit(this)}</ph>`;\n}\n}\n\nconst /** @type {?} */
serializerVisitor = new _SerializerVisitor();\n/**\n * @param {?} nodes\n * @return {?} */\nexport function
serializeNodes(nodes: i18n.Node[]): string[] {\n  return nodes.map(a => a.visit(serializerVisitor, null));\n}\n/**\n *
Serialize the i18n ast to something xml-like in order to generate an UID.\n * *\n * Ignore the ICU expressions so
that message IDs stays identical if only the expression changes.\n * *\n */\n\nclass _SerializerIgnoreIcuExpVisitor
extends _SerializerVisitor {\n  /**\n * @param {?} icu\n * @param {?} context\n * @return {?} */\n  visitIcu(icu:
i18n.Icu, context: any): any {\n  let /** @type {?} */ strCases = Object.keys(icu.cases).map((k: string) => `${k}
${icu.cases[k].visit(this)}`);\n  // Do not take the expression into account\n  return `${icu.type},
${strCases.join(' ')}`;\n}\n}\n/**\n * Compute the SHA1 of the given string\n * *\n * see
http://csrc.nist.gov/publications/fips/fips180-4/fips-180-4.pdf\n * *\n * WARNING: this function has not been
designed not tested with security in mind.\n * DO NOT USE IT IN A SECURITY SENSITIVE CONTEXT.\n *\n * @param {?} str\n * @return {?} */\nexport function sha1(str: string): string {\n  const /** @type {?} */ utf8 =
utf8Encode(str);\n  const /** @type {?} */ words32 = stringToWords32(utf8, Endian.Big);\n  const /** @type {?}
*/ len = utf8.length * 8;\n  const /** @type {?} */ w = new Array(80);\n  let [a, b, c, d, e]: number[] =
[0x67452301, 0xefcdab89, 0x98badcfe, 0x10325476, 0xc3d2e1f0];\n\n  words32[len >> 5] |= 0x80 << (24 - len %
32);\n  words32[((len + 64 >> 9) << 4) + 15] = len;\n\n  for (let /** @type {?} */ i = 0; i < words32.length; i += 16)
{\n    const [h0, h1, h2, h3, h4]: number[] = [a, b, c, d, e];\n    for (let /** @type {?} */ j = 0; j < 80; j++) {\n  if
(j < 16) {\n      w[j] = words32[i + j];\n    } else {\n      w[j] = rol32(w[j - 3] ^ w[j - 8] ^ w[j - 14] ^ w[j - 16], 1);\n
    }\n\n    const [f, k] = fk(j, b, c, d);\n    const /** @type {?} */ temp = [rol32(a, 5), f, e, k, w[j]].reduce(add32);\n
    [e, d, c, b, a] = [d, c, rol32(b, 30), a, temp];\n  }\n\n  [a, b, c, d, e] = [add32(a, h0), add32(b, h1), add32(c, h2),
add32(d, h3), add32(e, h4)];\n}\n\n  return byteStringToHexString(words32ToByteString([a, b, c, d, e]));\n}\n/**\n *
@param {?} index\n * @param {?} b\n * @param {?} c\n * @param {?} d\n * @return {?} */\nfunction

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fk(index: number, b: number, c: number, d: number): [number, number] {\n  if (index < 20) {\n    return [(b & c) | (~b & d), 0x5a827999];\n  }\n  if (index < 40) {\n    return [b ^ c ^ d, 0x6ed9eba1];\n  }\n  if (index < 60) {\n    return [(b & c) | (b & d) | (c & d), 0x8f1bbcdc];\n  }\n  return [b ^ c ^ d, 0xca62c1d6];\n}\n\n\n * Compute the fingerprint of the given string\n * *\n * The output is 64 bit number encoded as a decimal string\n * *\n * based on:\n * https://github.com/google/closure-compiler/blob/master/src/com/google/javascript/jscomp/GoogleJsMessageIdGenerator.java\n * @param {?} str\n * @return {?} \n\n\nexport function fingerprint(str: string): [number, number] {\n  const /** @type {?} */ utf8 = utf8Encode(str);\n  let [hi, lo] = [hash32(utf8, 0), hash32(utf8, 102072)];\n  if (hi == 0 && (lo == 0 || lo == 1)) {\n    hi = hi ^ 0x130f9bef;\n    lo = lo ^ -0x6b5f56d8;\n  }\n  return [hi, lo];\n}\n\n\n * @param {?} msg\n * @param {?} meaning\n * @return {?} \n\n\nexport function computeMsgId(msg: string, meaning: string): string {\n  let [hi, lo] = fingerprint(msg);\n  if (meaning) {\n    const [him, lom] = fingerprint(meaning);\n    [hi, lo] = add64(rol64([hi, lo], 1), [him, lom]);\n  }\n  return byteStringToDecString(words32ToByteString([hi & 0x7ffffff, lo]));\n}\n\n\n * @param {?} str\n * @param {?} c\n * @return {?} \n\n\nfunction hash32(str: string, c: number): number {\n  let [a, b] = [0x9e3779b9, 0x9e3779b9];\n  let /** @type {?} */ i: number;\n  const /** @type {?} */ len = str.length;\n  for (i = 0; i + 12 <= len; i += 12) {\n    a = add32(a, wordAt(str, i, Endian.Little));\n    b = add32(b, wordAt(str, i + 4, Endian.Little));\n    c = add32(c, wordAt(str, i + 8, Endian.Little));\n    [a, b, c] = mix([a, b, c]);\n  }\n  a = add32(a, wordAt(str, i, Endian.Little));\n  b = add32(b, wordAt(str, i + 4, Endian.Little));\n  // the first byte of c is reserved for the length\n  c = add32(c, len);\n  c = add32(c, wordAt(str, i + 8, Endian.Little) << 8);\n  return mix([a, b, c])[2];\n}\n\n\n * @param {?} __0\n * @return {?} \n\n\nfunction mix([a, b, c]: [number, number, number]): [number, number, number] {\n  a = sub32(a, b); a = sub32(a, c); a ^= c >>> 13;\n  b = sub32(b, c); b = sub32(b, a); b ^= a << 8;\n  c = sub32(c, a); c = sub32(c, b); c ^= b >>> 13;\n  a = sub32(a, b); a = sub32(a, c); a ^= c >>> 12;\n  b = sub32(b, c); b = sub32(b, a); b ^= a << 16;\n  c = sub32(c, a); c = sub32(c, b); c ^= b >>> 5;\n  a = sub32(a, b); a = sub32(a, c); a ^= c >>> 3;\n  b = sub32(b, c); b = sub32(b, a); b ^= a << 10;\n  c = sub32(c, a); c = sub32(c, b); c ^= b >>> 15;\n  return [a, b, c];\n}\n\n\nlet Endian: any = {\n  Endian.Little: 0;\n  Endian.Big: 1;\n  Endian[Endian.Little] = \"Little\";\n  Endian[Endian.Big] = \"Big\";\n}\n\n\n * @param {?} str\n * @return {?} \n\n\nfunction utf8Encode(str: string): string {\n  let /** @type {?} */ encoded: string = \"\";\n  for (let /** @type {?} */ index = 0; index < str.length; index++) {\n    const /** @type {?} */ codePoint = decodeSurrogatePairs(str, index);\n    if (codePoint <= 0x7f) {\n      encoded += String.fromCharCode(codePoint);\n    } else if (codePoint <= 0x7ff) {\n      encoded += String.fromCharCode(0xc0 | codePoint >>> 6, 0x80 | codePoint & 0x3f);\n    } else if (codePoint <= 0xffff) {\n      encoded += String.fromCharCode(0xe0 | codePoint >>> 12, 0x80 | codePoint >>> 6 & 0x3f, 0x80 | codePoint & 0x3f);\n    } else if (codePoint <= 0x1ffff) {\n      encoded += String.fromCharCode(0xf0 | codePoint >>> 18, 0x80 | codePoint >>> 12 & 0x3f, 0x80 | codePoint >>> 6 & 0x3f, 0x80 | codePoint & 0x3f);\n    }\n  }\n  return encoded;\n}\n\n\n * @param {?} str\n * @param {?} index\n * @return {?} \n\n\nfunction decodeSurrogatePairs(str: string, index: number): number {\n  if (index < 0 || index >= str.length) {\n    throw new Error(`index=${index} is out of range in \"${str}\"`);\n  }\n  const /** @type {?} */ high = str.charCodeAt(index);\n  if (high >= 0xd800 && high <= 0xdfff && str.length > index + 1) {\n    const /** @type {?} */ low = byteAt(str, index + 1);\n    if (low >= 0xdc00 && low <= 0xdfff) {\n      return (high - 0xd800) * 0x400 + low - 0xdc00 + 0x10000;\n    }\n  }\n  return high;\n}\n\n\n * @param {?} a\n * @param {?} b\n * @return {?} \n\n\nfunction add32(a: number, b: number): number {\n  return add32to64(a, b)[1];\n}\n\n\n * @param {?} a\n * @param {?} b\n * @return {?} \n\n\nfunction add32to64(a: number, b: number): [number, number] {\n  const /** @type {?} */ low = (a & 0xffff) + (b & 0xffff);\n  const /** @type {?} */ high = (a >>> 16) + (b >>> 16) + (low >>> 16);\n  return [high >>> 16, (high << 16) | (low & 0xffff)];\n}\n\n\n * @param {?} __0\n * @param {?} __1\n * @return {?} \n\n\nfunction add64([ah, al]: [number, number], [bh, bl]: [number, number]): [number, number] {\n  const [carry, l] = add32to64(al, bl);\n  const /** @type {?} */ h = add32(add32(ah, bh), carry);\n  return [h, l];\n}\n\n\n * @param {?} a\n * @param {?} b\n * @return {?} \n\n\nfunction sub32(a: number, b: number): number {\n  const /** @type {?} */ low = (a & 0xffff) - (b & 0xffff);\n  const /** @type {?} */ high = (a >> 16) - (b >> 16) + (low >> 16);\n  return (high << 16) | (low & 0xffff);\n}\n\n\n\n * @param {?} a\n *

```

```

@param {?} count\n * @return {?}\n *\nfunction rol32(a: number, count: number): number {\n return (a << count
| (a >>> (32 - count));\n}\n/**\n * @param {?} __0\n * @param {?} count\n * @return {?}\n *\nfunction rol64([hi,
lo]: [number, number], count: number): [number, number] {\n const /** @type {?} */ h = (hi << count) | (lo >>>
(32 - count));\n const /** @type {?} */ l = (lo << count) | (hi >>> (32 - count));\n return [h, l];\n}\n/**\n * @param
{?} str\n * @param {?} endian\n * @return {?}\n *\nfunction stringToWords32(str: string, endian: Endian):
number[] {\n const /** @type {?} */ words32 = Array((str.length + 3) >>> 2);\n\n for (let /** @type {?} */ i = 0; i
< words32.length; i++) {\n words32[i] = wordAt(str, i * 4, endian);\n }\n\n return words32;\n}\n/**\n * @param
{?} str\n * @param {?} index\n * @return {?}\n *\nfunction byteAt(str: string, index: number): number {\n return
index >= str.length ? 0 : str.charCodeAtAt(index) & 0xff;\n}\n/**\n * @param {?} str\n * @param {?} index\n *
@param {?} endian\n * @return {?}\n *\nfunction wordAt(str: string, index: number, endian: Endian): number {\n
let /** @type {?} */ word = 0;\n if (endian === Endian.Big) {\n for (let /** @type {?} */ i = 0; i < 4; i++) {\n
word += byteAt(str, index + i) << (24 - 8 * i);\n }\n } else {\n for (let /** @type {?} */ i = 0; i < 4; i++) {\n
word += byteAt(str, index + i) << 8 * i;\n }\n }\n return word;\n}\n/**\n * @param {?} words32\n * @return
{?}\n *\nfunction words32ToByteString(words32: number[]): string {\n return words32.reduce((str, word) => str +
word32ToByteString(word, "));\n}\n/**\n * @param {?} word\n * @return {?}\n *\nfunction
word32ToByteString(word: number): string {\n let /** @type {?} */ str = ";\n for (let /** @type {?} */ i = 0; i < 4;
i++) {\n str += String.fromCharCode((word >>> 8 * (3 - i)) & 0xff);\n }\n return str;\n}\n/**\n * @param {?}
str\n * @return {?}\n *\nfunction byteStringToHexString(str: string): string {\n let /** @type {?} */ hex: string =
";\n for (let /** @type {?} */ i = 0; i < str.length; i++) {\n const /** @type {?} */ b = byteAt(str, i);\n hex += (b
>>> 4).toString(16) + (b & 0x0f).toString(16);\n }\n return hex.toLowerCase();\n}\n/**\n * @param {?} str\n *
@return {?}\n *\nfunction byteStringToDecString(str: string): string {\n let /** @type {?} */ decimal = ";\n let /**
@type {?} */ toThePower = '1';\n\n for (let /** @type {?} */ i = str.length - 1; i >= 0; i--) {\n decimal =
addBigInt(decimal, numberTimesBigInt(byteAt(str, i), toThePower));\n toThePower = numberTimesBigInt(256,
toThePower);\n }\n\n return decimal.split("").reverse().join(");\n}\n/**\n * @param {?} x\n * @param {?} y\n *
@return {?}\n *\nfunction addBigInt(x: string, y: string): string {\n let /** @type {?} */ sum = ";\n const /**
@type {?} */ len = Math.max(x.length, y.length);\n for (let /** @type {?} */ i = 0, /** @type {?} */ carry = 0; i <
len || carry; i++) {\n const /** @type {?} */ tmpSum = carry + +(x[i] || 0) + +(y[i] || 0);\n if (tmpSum >= 10) {\n
carry = 1;\n sum += tmpSum - 10;\n } else {\n carry = 0;\n sum += tmpSum;\n }\n }\n\n return
sum;\n}\n/**\n * @param {?} num\n * @param {?} b\n * @return {?}\n *\nfunction numberTimesBigInt(num:
number, b: string): string {\n let /** @type {?} */ product = ";\n let /** @type {?} */ bToThePower = b;\n for (;
num !== 0; num = num >>> 1) {\n if (num & 1) product = addBigInt(product, bToThePower);\n bToThePower
= addBigInt(bToThePower, bToThePower);\n }\n return product;\n}\n\ninterface DecoratorInvocation {\n type:
Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/digest.js.map

No license file was found, but licenses were detected in source scan.

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LICENSE file at https://angular.io/license\n *\n\nimport {decimalDigest} from './digest';\nimport * as i18n from
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(PCDATA)>\n\n\n<!ELEMENT ph (#PCDATA|ex)*>\n\n\n<!ATTLIST ph name CDATA
#REQUIRED>\n\n\n<!ELEMENT ex (#PCDATA)>`;
\n\nexport class Xmb implements Serializer {\n/**\n * @param
 {?} messages\n * @return {?} *\n\nwrite(messages: i18n.Message[]): string {\n  const /** @type {?} */
 exampleVisitor = new ExampleVisitor();\n  const /** @type {?} */ visitor = new _Visitor();\n  const /** @type
 {?} */ visited: {[id: string]: boolean} = {};\n  let /** @type {?} */ rootNode = new
xml.Tag(_MESSAGES_TAG);\n  \n  messages.forEach(message => {\n    const /** @type {?} */ id =
this.digest(message);\n    // deduplicate messages\n    if (visited[id]) return;\n    visited[id] = true;\n    \n    const
 /** @type {?} */ attrs: {[k: string]: string} = {id};\n    \n    if (message.description) {\n      attrs['desc'] =
message.description;\n    }\n    \n    if (message.meaning) {\n      attrs['meaning'] = message.meaning;\n    }\n    \n
rootNode.children.push(\n      new xml.CR(2), new xml.Tag(_MESSAGE_TAG, attrs,\n        visitor.serialize(message.nodes));\n    });\n    \n    rootNode.children.push(new xml.CR());\n    \n    return
xml.serialize([\n      new xml.Declaration({version: '1.0', encoding: 'UTF-8'}),\n      new xml.CR(),\n      new
xml.Doctype(_MESSAGES_TAG, _DOCTYPE),\n      new xml.CR(),\n      \n      exampleVisitor.addDefaultExamples(rootNode),\n      \n      new xml.CR(),\n    ]);\n  }\n\n/**\n * @param {?} content\n *
@param {?} url\n * @return {?} *\n\nload(content: string, url: string): [[msgId: string]: i18n.Node[]] {\n  throw
new Error('Unsupported');\n  }\n\n/**\n * @param {?} message\n * @return {?} *\n\ndigest(message:
i18n.Message): string {\n    return digest(message);\n  }\n\n\nclass _Visitor implements i18n.Visitor {\n/**\n * @param
 {?} text\n * @param {=} context\n * @return {?} *\n\nvisitText(text: i18n.Text, context?: any): xml.Node[] {\n
return [new xml.Text(text.value)];\n  }\n\n/**\n * @param {?} container\n * @param {=} context\n * @return {?} *\n\n
visitContainer(container: i18n.Container, context?: any): xml.Node[] {\n    const /** @type {?} */ nodes:
xml.Node[] = [];\n    container.children.forEach((node: i18n.Node) => nodes.push(...node.visit(this)));
\n    return
nodes;\n  }\n\n/**\n * @param {?} icu\n * @param {=} context\n * @return {?} *\n\nvisitIcu(icu: i18n.Icu,
context?: any): xml.Node[] {\n    const /** @type {?} */ nodes = [new xml.Text(` ${icu.expressionPlaceholder},
${icu.type}, `)];\n    \n    Object.keys(icu.cases).forEach((c: string) => {\n      nodes.push(new xml.Text(` ${c} `),
...icu.cases[c].visit(this), new xml.Text(` `));\n    });\n    \n    nodes.push(new xml.Text(` `));\n    \n    return
nodes;\n  }\n\n}

```

```

}\n/**\n * @param {?} ph\n * @param {?=} context\n * @return {?}\n *\nvisitTagPlaceholder(ph:
i18n.TagPlaceholder, context?: any): xml.Node[] {\n  const /** @type {?} */ startEx = new
xml.Tag(_EXEMPLE_TAG, {}, [new xml.Text(<${ph.tag}>)]);\n  const /** @type {?} */ startTagPh = new
xml.Tag(_PLACEHOLDER_TAG, {name: ph.startName}, [startEx]);\n  if (ph.isVoid) {\n    // void tags have no
children nor closing tags\n    return [startTagPh];\n  }\n  const /** @type {?} */ closeEx = new
xml.Tag(_EXEMPLE_TAG, {}, [new xml.Text(</${ph.tag}>)]);\n  const /** @type {?} */ closeTagPh = new
xml.Tag(_PLACEHOLDER_TAG, {name: ph.closeName}, [closeEx]);\n  return [startTagPh,
...this.serialize(ph.children), closeTagPh];\n }\n/**\n * @param {?} ph\n * @param {?=} context\n * @return {?}\n *\nvisitPlaceholder(ph: i18n.Placeholder, context?: any): xml.Node[] {\n  return [new
xml.Tag(_PLACEHOLDER_TAG, {name: ph.name});\n }\n/**\n * @param {?} ph\n * @param {?=} context\n * @return {?}\n *\nvisitIcuPlaceholder(ph: i18n.IcuPlaceholder, context?: any): xml.Node[] {\n  return [new
xml.Tag(_PLACEHOLDER_TAG, {name: ph.name});\n }\n/**\n * @param {?} nodes\n * @return {?}\n *\nserialize(nodes: i18n.Node[]): xml.Node[] {\n  return [].concat(...nodes.map(node => node.visit(this)));\n
}\n}\n/**\n * @param {?} message\n * @return {?}\n *\nexport function digest(message: i18n.Message): string
{\n  return decimalDigest(message);\n }\n\n// TC requires at least one non-empty example on placeholders\nclass
ExampleVisitor implements xml.IVisitor {\n/**\n * @param {?} node\n * @return {?}\n *\naddDefaultExamples(node: xml.Node): xml.Node {\n  node.visit(this);\n  return node;\n }\n/**\n * @param
{?} tag\n * @return {?}\n *\nvisitTag(tag: xml.Tag): void {\n  if (tag.name === _PLACEHOLDER_TAG) {\n
if (!tag.children || tag.children.length == 0) {\n    const /** @type {?} */ exText = new xml.Text(tag.attrs['name']
|| '...');\n    tag.children = [new xml.Tag(_EXEMPLE_TAG, {}, [exText]);\n  }\n  } else if (tag.children) {\n
tag.children.forEach(node => node.visit(this));\n  }\n }\n/**\n * @param {?} text\n * @return {?}\n *\nvisitText(text: xml.Text): void {\n/**\n * @param {?} decl\n * @return {?}\n *\nvisitDeclaration(decl:
xml.Declaration): void {\n/**\n * @param {?} doctype\n * @return {?}\n *\nvisitDoctype(doctype:
xml.Doctype): void {\n}\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/xmb.js.map

No license file was found, but licenses were detected in source scan.

```

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AAC,WAAW,EAAE,gBAAgB,EAAC,MAAM,qBAAqB;OAC1D,EAAC,SAAS,EAAC,MAAM,eAAe;OAChC,EA
AC,kBAAkB,EAAC,MAAM,cAAc;OACxC,EAAC,eAAe,EAAE,SAAS,EAAC,MAAM,uBAAUb;OACzD,EAAC,
YAAY,EAAC,MAAM,QAAQ;AAInC;;;;;;;;;GAMG;AAEH;IACA;;OAEI;IACH,2BAAoB,UAAuC,QAA/C,0BAA+
C,GAA/C,sBAA+C;QAAvC,eAAU,GAAV,UAAU,CAA6B;IAAG,CAAC;IAC/D;;OAGG;IACH,uCAAW,GAAX,
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```

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```

bind to events. Use @HostListener instead.`);
    } else if (startWith === '[') {
      throw new Error(
        `@HostBinding parameter should be a property name, 'class.<name>', or 'attr.<name>.'`);
    }
    host[`${hostBinding.hostPropertyName}`] = propName;
  } else {
    host[`${propName}`] =
      propName;
  }
  const /** @type {?} */ hostListeners = propertyMetadata[propName].filter(a => a
    && a instanceof HostListener);
  hostListeners.forEach(hostListener => {
    const /** @type {?} */ args =
      hostListener.args || [];
    host[`${hostListener.eventName}`] = `${propName}(${args.join(',')}`);
  });
  const /** @type {?} */ query = ListWrapper.findLast(propertyMetadata[propName], (a) => a instanceof Query);
  if (query) {
    queries[propName] = query;
  }
  return this._merge(dm, inputs, outputs, host,
    queries, directiveType);
}
/** @param {?} def @return {?} @private _extractPublicName(def:
string) { return splitAtColon(def, [null, def])[1].trim(); }
/** @param {?} bindings @return {?} @private _dedupeBindings(bindings: string[]): string[] {
const /** @type {?} */ names = new Set<string>();
const /** @type {?} */ reversedResult: string[] = [];
// go last to first to allow later entries to overwrite previous
entries
for (let /** @type {?} */ i = bindings.length - 1; i >= 0; i--) {
const /** @type {?} */ binding =
bindings[i];
const /** @type {?} */ name = this._extractPublicName(binding);
if (!names.has(name)) {
names.add(name);
reversedResult.push(binding);
}
}
return reversedResult.reverse();
}
/** @param {?} directive @param {?} inputs @param {?} outputs @param {?} host @param {?}
queries @param {?} directiveType @return {?} @private _merge({
directive: Directive, inputs:
string[], outputs: string[], host: {[key: string]: string},
queries: {[key: string]: any}, directiveType:
Type<any>): Directive {
const /** @type {?} */ mergedInputs =
this._dedupeBindings(directive.inputs ?
directive.inputs.concat(inputs) : inputs);
const /** @type {?} */ mergedOutputs =
this._dedupeBindings(directive.outputs ?
directive.outputs.concat(outputs) : outputs);
const /** @type {?} */
mergedHost = directive.host ? StringMapWrapper.merge(directive.host, host) : host;
const /** @type {?} */
mergedQueries =
directive.queries ? StringMapWrapper.merge(directive.queries, queries) : queries;
if
(directive instanceof Component) {
return new Component({
selector: directive.selector,
inputs:
mergedInputs,
outputs: mergedOutputs,
host: mergedHost,
exportAs: directive.exportAs,
moduleId: directive.moduleId,
queries: mergedQueries,
changeDetection: directive.changeDetection,
providers: directive.providers,
viewProviders: directive.viewProviders,
entryComponents:
directive.entryComponents,
template: directive.template,
templateUrl: directive.templateUrl,
styles: directive.styles,
styleUrls: directive.styleUrls,
encapsulation: directive.encapsulation,
animations: directive.animations,
interpolation: directive.interpolation
});
} else {
return new
Directive({
selector: directive.selector,
inputs: mergedInputs,
outputs: mergedOutputs,
host: mergedHost,
exportAs: directive.exportAs,
queries: mergedQueries,
providers:
directive.providers
});
}
}
}
function DirectiveResolver_tsickle_Closure_declarations() {
/**
@type {?} @DirectiveResolver.prototype._reflector;
}
/** @param {?} type @return {?} @private
function isDirectiveMetadata(type: any): type is Directive {
return type instanceof Directive;
}
interface
DecoratorInvocation {
type: Function;
args?: any[];
}
}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/directive\_resolver.js.map

No license file was found, but licenses were detected in source scan.

```

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,eAAe,EAAC,MAAM,yBAAyB;OACrD,EAAC,iBAAiB,EAAC,MAAM,sBAAsB;OAC/C,EAAC,oBAAoB,EAAC
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AAW;OACjC,EAAC,mBAAmB,EAAC,MAAM,yBAAyB;OACpD,EAAC,iBAAiB,EAAC,MAAM,uBAAuB;OAC
hD,EAAC,uBAAuB,EAAC,MAAM,sBAAsB;OACrD,EAAC,UAAU,EAAC,MAAM,0BAA0B;OAC5C,EAAC,mB

```



```

from './aot/static_reflector';\nimport {StaticSymbolCache} from './aot/static_symbol';\nimport
{StaticSymbolResolver, StaticSymbolResolverHost} from './aot/static_symbol_resolver';\nimport
{AotSummaryResolver, AotSummaryResolverHost} from './aot/summary_resolver';\nimport
{CompileDirectiveMetadata} from './compile_metadata';\nimport {CompilerConfig} from './config';\nimport
{DirectiveNormalizer} from './directive_normalizer';\nimport {DirectiveResolver} from
'./directive_resolver';\nimport {CompileMetadataResolver} from './metadata_resolver';\nimport {HtmlParser} from
'./ml_parser/html_parser';\nimport {InterpolationConfig} from './ml_parser/interpolation_config';\nimport
{NgModuleResolver} from './ng_module_resolver';\nimport {ParseError} from './parse_util';\nimport
{PipeResolver} from './pipe_resolver';\nimport {DomElementSchemaRegistry} from
'./schema/dom_element_schema_registry';\nimport {createOfflineCompileUrlResolver} from
'./url_resolver';\nimport {I18NHtmlParser} from './i18n_html_parser';\nimport {MessageBundle} from
'./message_bundle';\n\n/**\n * The host of the Extractor disconnects the implementation from TypeScript / other
language\n * services and from underlying file systems.\n */\nexport interface ExtractorHost extends
StaticSymbolResolverHost, AotSummaryResolverHost {\n  /**\n   * Loads a resource (e.g. html / css)\n   */\n  loadResource(path: string): Promise<string>;\n}\n\nexport class Extractor {\n  /**\n   * @param {?} host\n   * @param
{?} staticSymbolResolver\n   * @param {?} messageBundle\n   * @param {?} metadataResolver\n
*/\n  constructor(\n    public host: ExtractorHost,\n    private staticSymbolResolver: StaticSymbolResolver,\n    private
messageBundle: MessageBundle,\n    private metadataResolver: CompileMetadataResolver) {\n  }\n\n  /**\n   * @param {?}
rootFiles\n   * @return {?} */\n  extract(rootFiles: string[]): Promise<MessageBundle> {\n    const /** @type {?} */
programSymbols = extractProgramSymbols(this.staticSymbolResolver, rootFiles, this.host);\n    const
{ngModuleByPipeOrDirective, files, ngModules} =\n      analyzeAndValidateNgModules(programSymbols,
this.host, this.metadataResolver);\n    return Promise\n      .all(ngModules.map(\n        ngModule =>
this.metadataResolver.loadNgModuleDirectiveAndPipeMetadata(\n          ngModule.type.reference, false))\n      )\n      .then(() => {\n        const /** @type {?} */ errors: ParseError[] = [];\n        files.forEach(file => {\n          const
/** @type {?} */ compMetas: CompileDirectiveMetadata[] = [];\n          file.directives.forEach(directiveType =>
{\n            const /** @type {?} */ dirMeta = this.metadataResolver.getDirectiveMetadata(directiveType);\n           
if (dirMeta && dirMeta.isComponent) {\n              compMetas.push(dirMeta);\n            }\n          });\n          compMetas.forEach(compMeta => {\n            const /** @type {?} */ html = compMeta.template.template;\n            const /** @type {?} */ interpolationConfig =\n              InterpolationConfig.fromArray(compMeta.template.interpolation);\n            errors.push(\n              ...this.messageBundle.updateFromTemplate(html, file.srcUrl, interpolationConfig);\n            });\n          });\n          if (errors.length) {\n            throw new Error(errors.map(e => e.toString()).join('\\n'));\n          }\n          return
this.messageBundle;\n        });\n      });\n  }\n\n  /**\n   * @param {?} host\n   * @return {?} */\n  static create(host:
ExtractorHost): {extractor: Extractor, staticReflector: StaticReflector} {\n    const /** @type {?} */ htmlParser =
new I18NHtmlParser(new HtmlParser());\n    const /** @type {?} */ urlResolver =
createOfflineCompileUrlResolver();\n    const /** @type {?} */ symbolCache = new StaticSymbolCache();\n    const /** @type {?} */ summaryResolver = new AotSummaryResolver(host, symbolCache);\n    const /** @type
{?} */ staticSymbolResolver = new StaticSymbolResolver(host, symbolCache, summaryResolver);\n    const /** @type
{?} */ staticReflector = new StaticReflector(staticSymbolResolver);\n    StaticAndDynamicReflectionCapabilities.install(staticReflector);\n\n    const /** @type {?} */ config = new
CompilerConfig({\n      genDebugInfo: false,\n      defaultEncapsulation: ViewEncapsulation.Emulated,\n      logBindingUpdate: false,\n      useJit: false\n    });\n    const /** @type {?} */ normalizer = new
DirectiveNormalizer(\n      {get: (url: string) => host.loadResource(url)}, urlResolver, htmlParser, config);\n    const /** @type {?} */ elementSchemaRegistry = new DomElementSchemaRegistry();\n    const /** @type {?} */
resolver = new CompileMetadataResolver(\n      new NgModuleResolver(staticReflector), new
DirectiveResolver(staticReflector),\n      new PipeResolver(staticReflector), summaryResolver,
elementSchemaRegistry, normalizer,\n      staticReflector);\n\n    // TODO(vicb): implicit tags & attributes\n    const /** @type {?} */ messageBundle = new MessageBundle(htmlParser, [], {});\n    const /** @type {?} */

```





Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/bundles/compiler.umd.min.js

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/bundles/compiler.umd.js

No license file was found, but licenses were detected in source scan.

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 ontent":["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is  
 governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n  
 \*\n\nimport {getSymbolIterator, isJsObject, isPresent} from './lang';\n/\*\*\n \* Wraps Javascript Objects\n  
 \*\n\nexport class StringMapWrapper {\n/\*\*\n \* @param {?} m1\n \* @param {?} m2\n \* @return {?} \*\n\nstatic  
 merge<V>(m1: {[key: string]: V}, m2: {[key: string]: V}): {[key: string]: V} {\n const /\*\* @type {?} \*/ m:  
 {[key: string]: V} = {};\n\n for (const /\*\* @type {?} \*/ k of Object.keys(m1)) {\n m[k] = m1[k];\n }\n\n for  
 (const /\*\* @type {?} \*/ k of Object.keys(m2)) {\n m[k] = m2[k];\n }\n\n return m;\n }\n/\*\*\n \* @param {?} m1\n \* @param {?} m2\n \* @return {?} \*\n\nstatic equals<V>(m1: {[key: string]: V}, m2: {[key: string]: V}):  
 boolean {\n const /\*\* @type {?} \*/ k1 = Object.keys(m1);\n const /\*\* @type {?} \*/ k2 = Object.keys(m2);\n\n if (k1.length != k2.length) {\n return false;\n }\n\n for (let /\*\* @type {?} \*/ i = 0; i < k1.length; i++) {\n  
 const /\*\* @type {?} \*/ key = k1[i];\n if (m1[key] !== m2[key]) {\n return false;\n }\n }\n\n return  
 true;\n }\n}\n/\*\*\n \* A boolean-valued function over a value, possibly including context information\n \*  
 regarding that value's position in an array.\n \*\n\nexport interface Predicate<T> {\n (value: T, index?: number, array?:  
 T[]): boolean; }\n\nexport class ListWrapper {\n/\*\*\n \* @param {?} arr\n \* @param {?} condition\n \* @return  
 {?} \*\n\nstatic findLast<T>(arr: T[], condition: (value: T) => boolean): T {\n for (let /\*\* @type {?} \*/ i =  
 arr.length - 1; i >= 0; i--) {\n if (condition(arr[i])) {\n return arr[i];\n }\n }\n\n return null;\n }\n/\*\*\n \*  
 @param {?} list\n \* @param {?} items\n \* @return {?} \*\n\nstatic removeAll<T>(list: T[], items: T[]) {\n for  
 (let /\*\* @type {?} \*/ i = 0; i < items.length; ++i) {\n const /\*\* @type {?} \*/ index = list.indexOf(items[i]);\n  
 if (index > -1) {\n list.splice(index, 1);\n }\n }\n}\n/\*\*\n \* @param {?} list\n \* @param {?} el\n \*  
 @return {?} \*\n\nstatic remove<T>(list: T[], el: T): boolean {\n const /\*\* @type {?} \*/ index =  
 list.indexOf(el);\n if (index > -1) {\n list.splice(index, 1);\n return true;\n }\n return false;\n }\n/\*\*\n \*  
 @param {?} a\n \* @param {?} b\n \* @return {?} \*\n\nstatic equals(a: any[], b: any[]): boolean {\n if (a.length !=  
 b.length) return false;\n for (let /\*\* @type {?} \*/ i = 0; i < a.length; ++i) {\n if (a[i] !== b[i]) return false;\n  
 }\n return true;\n }\n/\*\*\n \* @param {?} list\n \* @return {?} \*\n\nstatic flatten<T>(list: Array<T|T[]>): T[] {\n  
 return list.reduce((flat: any[], item: T | T[]): T[] => {\n const /\*\* @type {?} \*/ flatItem = Array.isArray(item) ?  
 ListWrapper.flatten(item) : item;\n return ( /\*\* @type {?} \*/ ((<T[]>flat)).concat(flatItem);\n }, []);\n  
 }\n}\n/\*\*\n \* @param {?} obj\n \* @return {?} \*\n\nexport function isListLikeIterable(obj: any): boolean {\n if  
 (!isJsObject(obj)) return false;\n return Array.isArray(obj) ||\n (!obj instanceof Map) && // JS Map are  
 iterables but return entries as [k, v]\n getSymbolIterator() in obj); // JS Iterable have a Symbol.iterator  
 prop\n}\n/\*\*\n \* @param {?} a\n \* @param {?} b\n \* @param {?} comparator\n \* @return {?} \*\n\nexport  
 function areIterablesEqual(a: any, b: any, comparator: (a: any, b: any) => boolean): boolean {\n const /\*\*  
 @type {?} \*/ iterator1 = a[getSymbolIterator()];\n const /\*\* @type {?} \*/ iterator2 =

```
b[getSymbolIterator()]);\n\n while (true) {\n  const /** @type {?} */ item1 = iterator1.next();\n  const /** @type {?} */ item2 = iterator2.next();\n  if (item1.done && item2.done) return true;\n  if (item1.done || item2.done) return false;\n  if (!comparator(item1.value, item2.value)) return false;\n } }\n\n /** @param {?} obj\n  @param {?} fn\n  * @return ?\n  */\n  ^next\n  export function iterateListLike(obj: any, fn: (p: any) => any) {\n    if (Array.isArray(obj)) {\n      for (let /** @type {?} */ i = 0; i < obj.length; i++) {\n        fn(obj[i]);\n      }\n    } else {\n      const /** @type {?} */ iterator = obj[getSymbolIterator()];\n      let /** @type {?} */ item: any;\n      while (!((item = iterator.next()).done)) {\n        fn(item.value);\n      }\n    }\n  }\n}\n\n interface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/facade/collection.js.map

No license file was found, but licenses were detected in source scan.

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,IAAI,uBAAuB,CAC9B,iBAAiB,EAAE,WAAW,EAAE,gBAAGB,CAAC,MAAM,KAAK,CAAC,GAAG,gBAAGB  
,CAAC,CAAC,CAAC,GAAG,IAAI,EAC1F,gBAAGB,CAAC,MAAM,GAAG,CAAC,EAAE,SAAS,CAAC,UAAU,  
EAAE,IAAI,EAAE,SAAS,CAAC,UAAU,CAAC,CAAC;IACrF,CAAC;IACH;;;;;;OAOG;IACH,kCAAU,GAAG,  
UACM,IAAY,EAAE,UAAkB,EAAE,UAA2B,EAC7D,oBAAgC,EAAE,YAA6B;QACjE,EAAE,CAAC,CAAC,iB  
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C,CAAC;YACtB,IAAI,CAAC,oBAAoB,CAAC,IAAI,EAAE,UAAU,EAAE,UAAU,EAAE,YAAY,CAAC,CAAC;  
QACxE,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,IAAI,CAAC,WAAW,CAAC,IAAI,EAAE,UAAU,EAAE,UAA  
U,EAAE,oBAAoB,EAAE,YAAY,CAAC,CAAC;QACrF,CAAC;IACH,CAAC;IACH;;;;;;OAMG;IACK,4CAAoB,  
GAA5B,UACM,IAAY,EAAE,UAAkB,EAAE,UAA2B,EAC7D,YAA6B;QAC/B,IAAM,gBAAGB,CAAC,OAAO,  
GAAG,aAAa,CAAC,IAAI,EAAE,CAAC,IAAI,EAAE,EAAE,CAAC,CAAC,CAAC;QACjE,IAAM,gBAAGB,CAA  
C,SAAS,GAAG,OAAO,CAAC,CAAC,CAAC,CAAC;QAC9C,IAAM,gBAAGB,CAAC,KAAK,GAAG,OAAO,CA  
AC,CAAC,CAAC,CAAC,WAAW,EAAE,CAAC;QACxD,EAAE,CAAC,CAAC,KAAK,CAAC,CAAC,CAAC;YA  
CV,MAAM,CAAC,CAAC,KAAK,CAAC,CAAC,CAAC;gBACd,KAAK,OAAO,CAAC;gBACb,KAAK,MAAM;o  
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BACvE,YAAY,CAAC,IAAI,CAAC,IAAI,aAAa,CAAC,SAAS,EAAE,IAAI,EAAE,KAAK,EAAE,GAAG,EAAE,U  
AAU,CAAC,CAAC,CAAC;oBAC9E,KAAK,CAAC;gBAER;oBACE,IAAI,CAAC,YAAY,CACb,iDAA8C,KAAK  
,kBAAW,SAAS,4CAAwC,EAC/G,UAAU,CAAC,CAAC;oBACb,KAAK,CAAC;YACV,CAAC;QACH,CAAC;Q  
AAC,IAAI,CAAC,CAAC;YACN,IAAI,CAAC,YAAY,CACb,0CAAwC,SAAS,8EAA2E,EAC5H,UAAU,CAAC,C  
AAC;QACIB,CAAC;IACH,CAAC;IACH;;;;;;OAOG;IACK,mCAAW,GAAnB,UACM,IAAY,EAAE,UAAkB,EA  
AE,UAA2B,EAC7D,oBAAgC,EAAE,YAA6B;QACjE,mCAAmC;QACnC,IAAA,qCAA4D,EAArD,cAAM,EAAE,  
iBAAS,CAAqC;QAC7D,IAAM,gBAAGB,CAAC,GAAG,GAAG,IAAI,CAAC,YAAY,CAAC,UAAU,EAAE,UAA  
U,CAAC,CAAC;QACvE,oBAAoB,CAAC,IAAI,CAAC,CAAC,IAAI,EAAE,GAAG,CAAC,MAAM,CAAC,CAAC  
,CAAC;QAC9C,YAAY,CAAC,IAAI,CAAC,IAAI,aAAa,CAAC,SAAS,EAAE,MAAM,EAAE,IAAI,EAAE,GAAG  
,EAAE,UAAU,CAAC,CAAC,CAAC;QAC/E,mDAAmD;QACnD,oDAAoD;IACtD,CAAC;IACH;;;;OAI;IACK,o  
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C,GAAG,CAAC;QACb,CAAE;QAAA,KAAK,CAAC,CAAKB,CAAC,CAAC,CAAC,CAAC;YAC5B,IAAI,CAAC  
,YAAY,CAAC,KAAG,CAAG,EAAE,UAAU,CAAC,CAAC;YACtC,MAAM,CAAC,IAAI,CAAC,WAAW,CAAC,  
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AAC,CAAC,CAAC;IACtE,CAAC;IACH;,,,;OAIG;IACK,qDAA6B,GAArC,UAAcS,MAAqB,EAAE,UAA2B;QAC  
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AC;IACH;,,,;OAIG;IACK,mCAAw,GAAnB,UAAoB,GAakB,EAAE,UAA2B;QAAnE,iBAaG;QAZC,EAAE,CAA  
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,aAAa,EAAE,CAAC;YACvD,GAAG,CAAC,KAAC,CAAC,SAAS,CAAC,CAAC;YACrB,SAAS,CAAC,KAAC,C  
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C,CAAC,CAAC;gBAC3F,CAAC;YACH,CAAC,CAAC,CAAC;QACL,CAAC;IACH,CAAC;IACH;,,,;OAKG;IAC  
K,wDAAGC,GAAXC,UACM,QAAGB,EAAE,UAA2B,EAAE,MAAE;QACHe,IAAM,gBAAGB,CAAC,MAAM,GA  
AG,MAAM,GAAG,IAAI,CAAC,eAAe,CAAC,iBAAiB,CAAC,QAAQ,CAAC;YACjE,IAAI,CAAC,eAAe,CAAC,  
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,CAAC,eAAe,CAAC;IACvC,gBAAGB;IACjB,aAAa,CAAC,SAAS,CAAC,aAAa,CAAC;AACtC,CAAC;AAGD;IA  
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AXD;,,,;OAIG;IACH,iCAAS,GAAT,UAAU,GAAGB,EAAE,OAAy;QACpC,IAAI,CAAC,KAAC,CAAC,GAAG,C  
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D;IACC,gBAAGB;IACjB,aAAa,CAAC,SAAS,CAAC,KAAC,CAAC;AAC9B,CAAC;AAED;,,,;GAGG;AACH,2BA  
A2B,IAAY;IACrC,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC,IAAI,GAAG,CAAC;AACxB,CAAC;AACD;,,,;G  
AMG;AACH,6CACI,QAA+B,EAAE,QAAGB,EAAE,QAAGB,EACnE,WAAoB;IACtB,IAAM,gBAAGB,CAAC,IA  
AI,GAAsB,EAAE,CAAC;IACpD,WAAW,CAAC,KAAC,CAAC,QAAQ,CAAC,CAAC,OAAO,CAAC,UAAc,QA  
AQ;QAC3C,IAAM,gBAAGB,CAAC,YAAy,GAAG,QAAQ,CAAC,OAAO,GAAG,CAAC,QAAQ,CAAC,OAAO,  
CAAC,GAAG,QAAQ,CAAC,oBAAoB,EAAE,CAAC;QAC9G,IAAM,gBAAGB,CAAC,eAAe,GACIC,IAAI,GAA  
G,CAAC,QAAQ,CAAC,YAAy,CAAC,MAAM,CAAC,UAAA,QAAQ,IAAI,OAAA,QAAQ,CAAC,iBAAiB,EAA  
E,EAA5B,CAA4B,CAAC;aACjE,GAAG,CAAC,UAAc,QAAQ,IAAK,OAAA,QAAQ,CAAC,OAAO,EAAhB,CA  
AgB,CAAC,CAAC,CAAC;QACtD,IAAM,gBAAGB,CAAC,oBAAoB,GACvC,YAAy,CAAC,MAAM,CAAC,UA  
AA,WAAW,IAAI,OAAA,CAAC,eAAe,CAAC,GAAG,CAAC,WAAW,CAAC,EAAjC,CAAiC,CAAC,CAAC;QA  
EIE,IAAI,CAAC,IAAI,OAAT,IAAI,EAAS,oBAAoB,CAAC,GAAG,CACjC,UAAA,WAAW,IAAI,OAAA,QAAQ,  
CAAC,eAAe,CAAC,WAAW,EAAE,QAAQ,EAAE,WAAW,CAAC,EAA5D,CAA4D,CAAC,CAAC,CAAC;IACp  
F,CAAC,CAAC,CAAC;IACH,MAAM,CAAC,IAAI,CAAC,MAAM,KAAC,CAAC,GAAG,CAAC,eAAe,CAAC,I  
AAI,CAAC,GAAG,KAAC,CAAC,IAAI,CAAC,IAAI,GAAG,CAAC,IAAI,CAAC,CAAC,IAAI,EAAE,CA  
AC;AACvF,CAAC", "sourcesContent":["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at  
<https://angular.io/license>\n \*\nimport {SecurityContext} from '@angular/core';\nimport  
{CompileDirectiveSummary, CompilePipeSummary} from './compile\_metadata';\nimport {ASTWithSource,  
BindingPipe, EmptyExpr, ParserError, RecursiveAstVisitor, TemplateBinding} from  
'./expression\_parser/ast';\nimport {Parser} from './expression\_parser/parser';\nimport {isPresent} from  
'./facade/lang';\nimport {InterpolationConfig} from './ml\_parser/interpolation\_config';\nimport  
{mergeNsAndName} from './ml\_parser/tags';\nimport {ParseError, ParseErrorLevel, ParseSourceSpan} from  
'./parse\_util';\nimport {ElementSchemaRegistry} from './schema/element\_schema\_registry';\nimport {CssSelector}  
from './selector';\nimport {splitAtColon, splitAtPeriod} from './util';\nimport {BoundElementPropertyAst,

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BoundEventAst, PropertyBindingType, VariableAst} from './template_ast';\n\nconst /** @type {?} */
PROPERTY_PARTS_SEPARATOR = '.';\nconst /** @type {?} */ ATTRIBUTE_PREFIX = 'attr';\nconst /**
@type {?} */ CLASS_PREFIX = 'class';\nconst /** @type {?} */ STYLE_PREFIX = 'style';\nconst /** @type
{?} */ ANIMATE_PROP_PREFIX = 'animate-';\nexport type BoundPropertyType = number;\nexport let
BoundPropertyType: any = {};\nBoundPropertyType.DEFAULT = 0;\nBoundPropertyType.LITERAL_ATTR =
1;\nBoundPropertyType.ANIMATION = 2;\nBoundPropertyType[BoundPropertyType.DEFAULT] =
\"DEFAULT\";\nBoundPropertyType[BoundPropertyType.LITERAL_ATTR] =
\"LITERAL_ATTR\";\nBoundPropertyType[BoundPropertyType.ANIMATION] = \"ANIMATION\";\n\n/**\n *
Represents a parsed property.\n * \nexport class BoundProperty {\n /**\n * @param {?} name\n * @param {?}
expression\n * @param {?} type\n * @param {?} sourceSpan\n * \nconstructor(\npublic name: string,\npublic
expression: ASTWithSource,\npublic type: BoundPropertyType,\npublic sourceSpan: ParseSourceSpan) {\n /**\n *
@return {?} \n * \nget isLiteral() { return this.type === BoundPropertyType.LITERAL_ATTR; }\n /**\n *
@return
{?} \n * \nget isAnimation() { return this.type === BoundPropertyType.ANIMATION; }\n }\n\nfunction
BoundProperty_tsickle_Closure_declarations() {\n /** @type {?} */ \nBoundProperty.prototype.name;\n /** @type
{?} */ \nBoundProperty.prototype.expression;\n /** @type {?} */ \nBoundProperty.prototype.type;\n /** @type {?}
*/ \nBoundProperty.prototype.sourceSpan;\n }\n\n/**\n * Parses bindings in templates and in the directive host
area.\n * \nexport class BindingParser {\n pipesByName: Map<string, CompilePipeSummary> = new
Map();\n /**\n * @param {?} _exprParser\n * @param {?} _interpolationConfig\n * @param {?}
_schemaRegistry\n * @param {?} pipes\n * @param {?} _targetErrors\n * \nconstructor(\nprivate _exprParser:
Parser,\nprivate _interpolationConfig: InterpolationConfig,\nprivate _schemaRegistry: ElementSchemaRegistry,
pipes: CompilePipeSummary[],\nprivate _targetErrors: ParseError[]) {\n pipes.forEach(pipe =>
this.pipesByName.set(pipe.name, pipe));\n }\n /**\n * @param {?} dirMeta\n * @param {?} sourceSpan\n *
@return {?} \n * \ncreateDirectiveHostPropertyAsts(dirMeta: CompileDirectiveSummary, sourceSpan:
ParseSourceSpan):\n BoundElementPropertyAst[] {\n if (dirMeta.hostProperties) {\n const /** @type {?} */
boundProps: BoundProperty[] = [];\n Object.keys(dirMeta.hostProperties).forEach(propName => {\n const
/** @type {?} */ expression = dirMeta.hostProperties[propName];\n if (typeof expression === 'string') {\n
this.parsePropertyBinding(propName, expression, true, sourceSpan, [], boundProps);\n } else {\n
this._reportError(\n `Value of the host property binding \"${propName}\" needs to be a string representing
an expression but got \"${expression}\" (${typeof expression})`,\n sourceSpan);\n }\n });\n return
boundProps.map((prop) => this.createElementPropertyAst(dirMeta.selector, prop));\n }\n }\n\n /**\n *
@return {?} \n * \ncreateDirectiveHostEventAsts(dirMeta:
CompileDirectiveSummary, sourceSpan: ParseSourceSpan):\n BoundEventAst[] {\n if (dirMeta.hostListeners)
{\n const /** @type {?} */ targetEventAsts: BoundEventAst[] = [];\n
Object.keys(dirMeta.hostListeners).forEach(propName => {\n const /** @type {?} */ expression =
dirMeta.hostListeners[propName];\n if (typeof expression === 'string') {\n this.parseEvent(propName,
expression, sourceSpan, [], targetEventAsts);\n } else {\n this._reportError(\n `Value of the host
listener \"${propName}\" needs to be a string representing an expression but got \"${expression}\" (${typeof
expression})`,\n sourceSpan);\n }\n });\n return targetEventAsts;\n }\n }\n\n /**\n *
@return {?} \n * \nparseInterpolation(value: string, sourceSpan:
ParseSourceSpan): ASTWithSource {\n const /** @type {?} */ sourceInfo = sourceSpan.start.toString();\n try
{\n const /** @type {?} */ ast = this._exprParser.parseInterpolation(value, sourceInfo,\n
this._interpolationConfig);\n if (ast) this._reportExpressionParserErrors(ast.errors, sourceSpan);\n
this._checkPipes(ast, sourceSpan);\n return ast;\n } catch (/** @type {?} */ e) {\n this._reportError(`${e}`,
sourceSpan);\n return this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n }\n }\n\n /**\n *
@return {?} \n * \nparseInlineTemplateBinding(\n name: string, prefixToken: string, value: string, sourceSpan:
ParseSourceSpan,\n targetMatchableAttrs: string[][], targetProps: BoundProperty[], targetVars: VariableAst[])

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{\n  const /** @type {?} */ bindings = this._parseTemplateBindings(prefixToken, value, sourceSpan);\n  for (let\n  /** @type {?} */ i = 0; i < bindings.length; i++) {\n    const /** @type {?} */ binding = bindings[i];\n    if\n    (binding.keyIsVar) {\n      targetVars.push(new VariableAst(binding.key, binding.name, sourceSpan));\n    } else\n    if (isPresent(binding.expression)) {\n      this._parsePropertyAst(\n        binding.key, binding.expression,\n        sourceSpan, targetMatchableAttrs, targetProps);\n    } else {\n      targetMatchableAttrs.push([binding.key, "]);\n      this.parseLiteralAttr(binding.key, null, sourceSpan, targetMatchableAttrs, targetProps);\n    }\n  }\n}\n\n/**\n * @param {?} prefixToken\n * @param {?} value\n * @param {?} sourceSpan\n * @return {?}\n */\nprivate\n_parseTemplateBindings(prefixToken: string, value: string, sourceSpan: ParseSourceSpan):\n  TemplateBinding[]\n{\n  const /** @type {?} */ sourceInfo = sourceSpan.start.toString();\n  try {\n    const /** @type {?} */\n    bindingsResult = this._exprParser.parseTemplateBindings(prefixToken, value, sourceInfo);\n    this._reportExpressionParserErrors(bindingsResult.errors, sourceSpan);\n    bindingsResult.templateBindings.forEach((binding) => {\n      if (isPresent(binding.expression)) {\n        this._checkPipes(binding.expression, sourceSpan);\n      }\n    });\n    bindingsResult.warnings.forEach(\n    (warning) => { this._reportError(warning, sourceSpan, ParseErrorLevel.WARNING); });\n    return\n    bindingsResult.templateBindings;\n  } catch (/** @type {?} */ e) {\n    this._reportError(`${e}`, sourceSpan);\n    return [];\n  }\n}\n\n/**\n * @param {?} name\n * @param {?} value\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\nprivate\n_parseLiteralAttr(\n  name: string, value:\n  string, sourceSpan: ParseSourceSpan, targetMatchableAttrs: string[][],\n  targetProps: BoundProperty[]) {\n  if\n  (_isAnimationLabel(name)) {\n    name = name.substring(1);\n    if (value) {\n      this._reportError(\n        `Assigning animation triggers via @prop="exp" attributes with an expression is invalid.` +\n        ` Use\n        property bindings (e.g. [@prop]="exp") or use an attribute without a value (e.g. @prop) instead.`,\n        sourceSpan, ParseErrorLevel.FATAL);\n    }\n    this._parseAnimation(name, value, sourceSpan,\n    targetMatchableAttrs, targetProps);\n  } else {\n    targetProps.push(new BoundProperty(\n    name,\n    this._exprParser.wrapLiteralPrimitive(value, "), BoundPropertyType.LITERAL_ATTR,\n    sourceSpan));\n  }\n}\n\n/**\n * @param {?} name\n * @param {?} expression\n * @param {?} isHost\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\nprivate\n_parsePropertyBinding(\n  name: string, expression: string, isHost: boolean, sourceSpan: ParseSourceSpan,\n  targetMatchableAttrs: string[][], targetProps: BoundProperty[]) {\n  let /** @type {?} */ isAnimationProp =\n  false;\n  if (name.startsWith(ANIMATE_PROP_PREFIX)) {\n    isAnimationProp = true;\n    name =\n    name.substring(ANIMATE_PROP_PREFIX.length);\n  } else if (_isAnimationLabel(name)) {\n    isAnimationProp = true;\n    name = name.substring(1);\n  }\n  if (isAnimationProp) {\n    this._parseAnimation(name, expression, sourceSpan, targetMatchableAttrs, targetProps);\n  } else {\n    this._parsePropertyAst(\n    name, this._parseBinding(expression, isHost, sourceSpan), sourceSpan,\n    targetMatchableAttrs, targetProps);\n  }\n}\n\n/**\n * @param {?} name\n * @param {?} value\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\nprivate\n_parsePropertyInterpolation(\n  name: string, value: string, sourceSpan: ParseSourceSpan,\n  targetMatchableAttrs: string[][],\n  targetProps: BoundProperty[]): boolean {\n  const /** @type {?} */ expr =\n  this.parseInterpolation(value, sourceSpan);\n  if (isPresent(expr)) {\n    this._parsePropertyAst(name, expr,\n    sourceSpan, targetMatchableAttrs, targetProps);\n    return true;\n  }\n  return false;\n}\n\n/**\n * @param {?} name\n * @param {?} ast\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\nprivate\n_parsePropertyAst(\n  name: string, ast: ASTWithSource, sourceSpan:\n  ParseSourceSpan,\n  targetMatchableAttrs: string[][], targetProps: BoundProperty[]) {\n  targetMatchableAttrs.push([name, ast.source]);\n  targetProps.push(new BoundProperty(name, ast,\n  BoundPropertyType.DEFAULT, sourceSpan));\n}\n\n/**\n * @param {?} name\n * @param {?} expression\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\nprivate\n_parseAnimation(\n  name: string, expression: string, sourceSpan: ParseSourceSpan,\n  targetMatchableAttrs: string[][], targetProps: BoundProperty[]) {\n  // This will occur when a @trigger is not\n  paired with an expression.\n  // For animations it is valid to not have an expression since */void\n  // states will be

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applied by angular when the element is attached/detached\n  const /** @type {?} */ ast =
this._parseBinding(expression || 'null', false, sourceSpan);\n  targetMatchableAttrs.push([name, ast.source]);\n
targetProps.push(new BoundProperty(name, ast, BoundPropertyType.ANIMATION, sourceSpan));\n  }\n/**\n *
@param {?} value\n * @param {?} isHostBinding\n * @param {?} sourceSpan\n * @return {?}\n */\nprivate
_parseBinding(value: string, isHostBinding: boolean, sourceSpan: ParseSourceSpan):\n  ASTWithSource {\n
const /** @type {?} */ sourceInfo = sourceSpan.start.toString();\n\n  try {\n    const /** @type {?} */ ast =
isHostBinding ?\n      this._exprParser.parseSimpleBinding(value, sourceInfo, this._interpolationConfig) :\n      this._exprParser.parseBinding(value, sourceInfo, this._interpolationConfig);\n    if (ast)
this._reportExpressionParserErrors(ast.errors, sourceSpan);\n    this._checkPipes(ast, sourceSpan);\n    return
ast;\n  } catch (/** @type {?} */ e) {\n    this._reportError(`${e}`, sourceSpan);\n    return
this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n  }\n}\n/**\n * @param {?} elementSelector\n *
@param {?} boundProp\n * @return {?}\n */\nprivate createElementPropertyAst(elementSelector: string, boundProp:
BoundProperty):\n  BoundElementPropertyAst {\n  if (boundProp.isAnimation) {\n    return new
BoundElementPropertyAst(\n      boundProp.name, PropertyBindingType.Animation, SecurityContext.NONE,
false,\n      boundProp.expression, null, boundProp.sourceSpan);\n  }\n\n  let /** @type {?} */ unit: string =
null;\n  let /** @type {?} */ bindingType: PropertyBindingType;\n  let /** @type {?} */ boundPropertyName:
string = null;\n  const /** @type {?} */ parts = boundProp.name.split(PROPERTY_PARTS_SEPARATOR);\n  let /** @type {?} */ securityContexts: SecurityContext[];\n\n  // Check check for special cases (prefix style, attr,
class)\n  if (parts.length > 1) {\n    if (parts[0] == ATTRIBUTE_PREFIX) {\n      boundPropertyName =
parts[1];\n      this._validatePropertyOrAttributeName(boundPropertyName, boundProp.sourceSpan, true);\n      securityContexts = calcPossibleSecurityContexts(\n        this._schemaRegistry, elementSelector,
boundPropertyName, true);\n      const /** @type {?} */ nsSeparatorIdx = boundPropertyName.indexOf(':');\n      if (nsSeparatorIdx > -1) {\n        const /** @type {?} */ ns = boundPropertyName.substring(0, nsSeparatorIdx);\n        const /** @type {?} */ name = boundPropertyName.substring(nsSeparatorIdx + 1);\n        boundPropertyName
= mergeNsAndName(ns, name);\n        }\n        bindingType = PropertyBindingType.Attribute;\n      } else if
(parts[0] == CLASS_PREFIX) {\n        boundPropertyName = parts[1];\n        bindingType =
PropertyBindingType.Class;\n        securityContexts = [SecurityContext.NONE];\n      } else if (parts[0] ==
STYLE_PREFIX) {\n        unit = parts.length > 2 ? parts[2] : null;\n        boundPropertyName = parts[1];\n        bindingType = PropertyBindingType.Style;\n        securityContexts = [SecurityContext.STYLE];\n      }\n\n  // If not a special case, use the full property name\n  if (boundPropertyName === null) {\n    boundPropertyName
= this._schemaRegistry.getMappedPropName(boundProp.name);\n    securityContexts =
calcPossibleSecurityContexts(\n      this._schemaRegistry, elementSelector, boundPropertyName, false);\n    bindingType = PropertyBindingType.Property;\n    this._validatePropertyOrAttributeName(boundPropertyName,
boundProp.sourceSpan, false);\n  }\n\n  return new BoundElementPropertyAst(\n    boundPropertyName,
bindingType, securityContexts.length === 1 ? securityContexts[0] : null,\n    securityContexts.length > 1,
boundProp.expression, unit, boundProp.sourceSpan);\n  }\n}\n/**\n * @param {?} name\n * @param {?} expression\n *
@param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetEvents\n * @return {?}\n */\nprivate
_parseEvent(\n  name: string, expression: string, sourceSpan: ParseSourceSpan,\n  targetMatchableAttrs:
string[[]], targetEvents: BoundEventAst[]) {\n  if (_isAnimationLabel(name)) {\n    name = name.substr(1);\n    this._parseAnimationEvent(name, expression, sourceSpan, targetEvents);\n  } else {\n    this._parseEvent(name,
expression, sourceSpan, targetMatchableAttrs, targetEvents);\n  }\n}\n/**\n * @param {?} name\n * @param {?}
expression\n * @param {?} sourceSpan\n * @param {?} targetEvents\n * @return {?}\n */\nprivate
_parseAnimationEvent(\n  name: string, expression: string, sourceSpan: ParseSourceSpan,\n  targetEvents:
BoundEventAst[]) {\n  const /** @type {?} */ matches = splitAtPeriod(name, [name, "]);\n  const /** @type {?} */
eventName = matches[0];\n  const /** @type {?} */ phase = matches[1].toLowerCase();\n  if (phase) {\n    switch (phase) {\n      case 'start':\n      case 'done':\n        const /** @type {?} */ ast =
this._parseAction(expression, sourceSpan);\n        targetEvents.push(new BoundEventAst(eventName, null, phase,
ast, sourceSpan));\n        break;\n      default:\n        this._reportError(\n          `The provided animation

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output phase value \"${phase}\" for \"@${eventName}\" is not supported (use start or done)\n
sourceSpan);\n    break;\n    }\n  } else {\n    this._reportError(\n      `The animation trigger output event
(@${eventName}) is missing its phase value name (start or done are currently supported)`,\n    sourceSpan);\n  }\n}\n\n/**\n * @param {?} name\n * @param {?} expression\n * @param {?} sourceSpan\n * @param {?}
targetMatchableAttrs\n * @param {?} targetEvents\n * @return {?}\n *\nprivate _parseEvent(\n  name: string,
expression: string, sourceSpan: ParseSourceSpan,\n  targetMatchableAttrs: string[][], targetEvents:
BoundEventAst[]) {\n  // long format: 'target: eventName'\n  const [target, eventName] = splitAtColon(name,
[null, name]);\n  const /** @type {?} */ ast = this._parseAction(expression, sourceSpan);\n  targetMatchableAttrs.push([name, ast.source]);\n  targetEvents.push(new BoundEventAst(eventName, target, null,
ast, sourceSpan));\n  // Don't detect directives for event names for now,\n  // so don't add the event name to the
matchableAttrs\n}\n\n/**\n * @param {?} value\n * @param {?} sourceSpan\n * @return {?}\n *\nprivate
_parseAction(value: string, sourceSpan: ParseSourceSpan): ASTWithSource {\n  const /** @type {?} */
sourceInfo = sourceSpan.start.toString();\n  try {\n    const /** @type {?} */ ast =
this._exprParser.parseAction(value, sourceInfo, this._interpolationConfig);\n    if (ast) {\n
this._reportExpressionParserErrors(ast.errors, sourceSpan);\n    }\n    if (!ast || ast.ast instanceof EmptyExpr) {\n
this._reportError(`Empty expressions are not allowed`, sourceSpan);\n    return
this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n    }\n    this._checkPipes(ast, sourceSpan);\n
return ast;\n  } catch (** @type {?} */ e) {\n    this._reportError(`${e}`, sourceSpan);\n    return
this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n  }\n}\n\n/**\n * @param {?} message\n * @param
{?} sourceSpan\n * @param {?} level\n * @return {?}\n *\nprivate _reportError(\n  message: string,
sourceSpan: ParseSourceSpan,\n  level: ParseErrorLevel = ParseErrorLevel.FATAL) {\n
this._targetErrors.push(new ParseError(sourceSpan, message, level));\n}\n\n/**\n * @param {?} errors\n * @param
{?} sourceSpan\n * @return {?}\n *\nprivate _reportExpressionParserErrors(errors: ParseError[], sourceSpan:
ParseSourceSpan) {\n  for (const /** @type {?} */ error of errors) {\n    this._reportError(error.message,
sourceSpan);\n  }\n}\n\n/**\n * @param {?} ast\n * @param {?} sourceSpan\n * @return {?}\n *\nprivate
_checkPipes(ast: ASTWithSource, sourceSpan: ParseSourceSpan) {\n  if (isPresent(ast)) {\n    const /** @type
{?} */ collector = new PipeCollector();\n    ast.visit(collector);\n    collector.pipes.forEach((ast, pipeName) => {\n
if (!this.pipesByName.has(pipeName)) {\n      this._reportError(\n        `The pipe '${pipeName}' could not
be found`,\n        new ParseSourceSpan(\n          sourceSpan.start.moveBy(ast.span.start),
sourceSpan.start.moveBy(ast.span.end)));\n    }\n  });\n}\n}\n\n/**\n * @param {?} propName the name of
the property / attribute\n * @param {?} sourceSpan\n * @param {?} isAttr true when binding to an attribute\n *
@return {?}\n *\nprivate _validatePropertyName(\n  propName: string, sourceSpan:
ParseSourceSpan, isAttr: boolean): void {\n  const /** @type {?} */ report = isAttr ?
this._schemaRegistry.validateAttribute(propName) :\n  this._schemaRegistry.validateProperty(propName);\n  if (report.error) {\n    this._reportError(report.msg,
sourceSpan, ParseErrorLevel.FATAL);\n  }\n}\n\nfunction BindingParser_tsickle_Closure_declarations() {\n
/** @type {?} */\nBindingParser.prototype.pipesByName;\n/** @type {?}
*\nBindingParser.prototype._exprParser;\n/** @type {?} */\nBindingParser.prototype._interpolationConfig;\n/**
*\nBindingParser.prototype._schemaRegistry;\n/** @type {?}
*\nBindingParser.prototype._targetErrors;\n}\n\n\nexport class PipeCollector extends RecursiveAstVisitor {\n
pipes = new Map<string, BindingPipe>();\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n
*\nprivate visitPipe(ast: BindingPipe, context: any): any {\n  this.pipes.set(ast.name, ast);\n  ast.exp.visit(this);\n
this.visitAll(ast.args, context);\n  return null;\n}\n}\n\nfunction PipeCollector_tsickle_Closure_declarations() {\n
/** @type {?} */\nPipeCollector.prototype.pipes;\n}\n\n/**\n * @param {?} name\n * @return {?}\n *\nfunction
_isAnimationLabel(name: string): boolean {\n  return name[0] === '@';\n}\n\n/**\n * @param {?} registry\n *
@param {?} selector\n * @param {?} propName\n * @param {?} isAttribute\n * @return {?}\n *\nprivate
calcPossibleSecurityContexts(\n  registry: ElementSchemaRegistry, selector: string, propName: string,\n  isAttribute: boolean): SecurityContext[] {\n  const /** @type {?} */ ctxs: SecurityContext[] = [];\n

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{\n const /** @type {?} */ view = compileElement.view;\n const /** @type {?} */ lifecycleHooks =
directiveMeta.type.lifecycleHooks;\n const /** @type {?} */ afterViewLifecycleCallbacksMethod =
view.afterViewLifecycleCallbacksMethod;\n afterViewLifecycleCallbacksMethod.resetDebugInfo(\n
compileElement.nodeIndex, compileElement.sourceAst);\n if
(lifecycleHooks.indexOf(LifecycleHooks.AfterViewInit) !== -1) {\n
afterViewLifecycleCallbacksMethod.addStmt(new o.IfStmt(\n    STATE_IS_NEVER_CHECKED,
[directiveInstance.callMethod('ngAfterViewInit', []).toStmt()]);\n }\n if
(lifecycleHooks.indexOf(LifecycleHooks.AfterViewChecked) !== -1) {\n
afterViewLifecycleCallbacksMethod.addStmt(\n    directiveInstance.callMethod('ngAfterViewChecked',
[]).toStmt());\n }\n}\n/**\n * @param {?} dir\n * @param {?} directiveWrapperIntance\n * @param {?}
compileElement\n * @return {?}\n */\nexport function bindDirectiveWrapperLifecycleCallbacks(\n dir:
DirectiveAst, directiveWrapperIntance: o.Expression, compileElement: CompileElement) {\n
compileElement.view.destroyMethod.addStmts(\n    DirectiveWrapperExpressions.ngOnDestroy(dir.directive,
directiveWrapperIntance));\n
compileElement.view.detachMethod.addStmts(DirectiveWrapperExpressions.ngOnDetach(\n    dir.hostProperties,
directiveWrapperIntance, o.THIS_EXPR,\n    compileElement.compileViewExpr || o.THIS_EXPR,
compileElement.renderNode));\n}\n/**\n * @param {?} provider\n * @param {?} providerInstance\n * @param
{?} compileElement\n * @return {?}\n */\nexport function bindInjectableDestroyLifecycleCallbacks(\n provider:
ProviderAst, providerInstance: o.Expression, compileElement: CompileElement) {\n const /** @type {?} */
onDestroyMethod = compileElement.view.destroyMethod;\n
onDestroyMethod.resetDebugInfo(compileElement.nodeIndex, compileElement.sourceAst);\n if
(provider.providerType !== ProviderAstType.Directive &&\n    provider.providerType !==
ProviderAstType.Component &&\n    provider.lifecycleHooks.indexOf(LifecycleHooks.OnDestroy) !== -1) {\n
onDestroyMethod.addStmt(providerInstance.callMethod('ngOnDestroy', []).toStmt());\n }\n}\n/**\n * @param {?}
pipeMeta\n * @param {?} pipeInstance\n * @param {?} view\n * @return {?}\n */\nexport function
bindPipeDestroyLifecycleCallbacks(\n pipeMeta: CompilePipeSummary, pipeInstance: o.Expression, view:
CompileView) {\n const /** @type {?} */ onDestroyMethod = view.destroyMethod;\n if
(pipeMeta.type.lifecycleHooks.indexOf(LifecycleHooks.OnDestroy) !== -1) {\n
onDestroyMethod.addStmt(pipeInstance.callMethod('ngOnDestroy', []).toStmt());\n }\n}\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/lifecycle_binder.js.map

```

No license file was found, but licenses were detected in source scan.

```

/**

```

```

* @license

```

```

* Copyright Google Inc. All Rights Reserved.

```

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*

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```

* Use of this source code is governed by an MIT-style license that can be

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```

* found in the LICENSE file at https://angular.io/license

```

```

*/

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml_parser/icu_ast_expander.d.ts

```

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/version.js

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/compiler_options.d.ts

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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/compiler\_host.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/shadow\_css.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/ast.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/output\_interpreter.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/jit/compiler.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/compiler\_util/identifier\_util.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/compile\_query.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/testing/facade/lang.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/expression\_parser/parser.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/static\_reflection\_capabilities.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/html\_parser.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/summary\_resolver.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/compile\_metadata.js  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/lexer.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/compiler\_util/identifier\_util.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/extractor\_merger.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/util.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/template\_parser/binding\_parser.js  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/schema/element\_schema\_registry.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/abstract\_emitter.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/lifecycle\_reflector.d.ts  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/constants.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/animation/animation\_ast.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/testing/index.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/facade/lang.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/directive\_normalizer.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/compiler\_host.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/compiler.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/schema/dom\_security\_schema.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/testing/directive\_resolver\_mock.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/template\_parser/template\_ast.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/output\_ast.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/jit/compiler\_factory.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/injectable.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/xml\_parser.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/ts\_emitter.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/testing/ng\_module\_resolver\_mock.js

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/index.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/version.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/path\_util.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/translation\_bundle.d.ts  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/schema/dom\_security\_schema.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/xml\_tags.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/style\_url\_resolver.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/xmb.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/facade/lang.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/util.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/i18n\_ast.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/chars.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/view\_binder.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/property\_binder.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/index.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/template\_parser/template\_parser.js  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/compile\_query.js  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/schema/element\_schema\_registry.js  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/icu\_ast\_expander.js  
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\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/selector.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/xliff.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/compile\_element.js  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ng\_module\_resolver.d.ts  
\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/extractor\_merger.js



- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/compile\_method.js
- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/pipe\_resolver.d.ts
- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/summary\_serializer.d.ts
- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/deps.js
- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/metadata\_resolver.d.ts
- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/constants.d.ts
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- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/compile\_pipe.d.ts
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- \* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/class\_builder.js

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/abstract_js_emitter.js
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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/testing/metadata_overrider.d.ts
* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/xml_helper.js
* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/compile_view.d.ts
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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/private_import_core.d.ts
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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/extractor.js
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Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the

```

```

LICENSE file at https://angular.io/license\n *\n\nimport {ViewEncapsulation, isDevMode} from
 '@angular/core';\n\nimport {CompileIdentifierMetadata} from './compile_metadata';\n\nimport {Identifiers,
 createIdentifier} from './identifiers';\n\n/**\n * @return {?}\n *\nfunction unimplemented(): any {\n throw new
 Error('unimplemented');\n}\n\nexport class CompilerConfig {\n\npublic renderTypes: RenderTypes;\n\npublic
 defaultEncapsulation: ViewEncapsulation;\n\nprivate _genDebugInfo: boolean;\n\nprivate _logBindingUpdate:
 boolean;\n\npublic useJit: boolean;\n\n/**\n * @param {?=} __0\n *\nconstructor(\n    {renderTypes = new
 DefaultRenderTypes(), defaultEncapsulation = ViewEncapsulation.Emulated,\n    genDebugInfo,
 logBindingUpdate, useJit = true}: {\n    renderTypes?: RenderTypes,\n    defaultEncapsulation?:
 ViewEncapsulation,\n    genDebugInfo?: boolean,\n    logBindingUpdate?: boolean,\n    useJit?: boolean\n
 } = {})\n\nthis.renderTypes = renderTypes;\n\nthis.defaultEncapsulation = defaultEncapsulation;\n\n
 this._genDebugInfo = genDebugInfo;\n\nthis._logBindingUpdate = logBindingUpdate;\n\nthis.useJit = useJit;\n
}\n\n/**\n * @return {?}\n *\nget genDebugInfo(): boolean {\n return this._genDebugInfo === void 0 ?
 isDevMode() : this._genDebugInfo;\n }\n\n/**\n * @return {?}\n *\nget logBindingUpdate(): boolean {\n return
 this._logBindingUpdate === void 0 ? isDevMode() : this._logBindingUpdate;\n }\n}\n\nfunction
 CompilerConfig_tsickle_Closure_declarations() {\n\n/** @type {?} */\nCompilerConfig.prototype.renderTypes;\n
\n/** @type {?} */\nCompilerConfig.prototype.defaultEncapsulation;\n\n/** @type {?}
 *\nCompilerConfig.prototype._genDebugInfo;\n\n/** @type {?}
 *\nCompilerConfig.prototype._logBindingUpdate;\n\n/** @type {?}
 *\nCompilerConfig.prototype.useJit;\n}\n\n/**\n * Types used for the renderer.\n * Can be replaced to specialize
 the generated output to a specific renderer\n * to help tree shaking.\n * @abstract\n *\nexport abstract class
 RenderTypes {\n\n/**\n * @return {?}\n *\nget renderer(): CompileIdentifierMetadata { return unimplemented();
 }\n\n/**\n * @return {?}\n *\nget renderText(): CompileIdentifierMetadata { return unimplemented(); }\n\n/**\n *
 @return {?}\n *\nget renderElement(): CompileIdentifierMetadata { return unimplemented(); }\n\n/**\n * @return
 {?}\n *\nget renderComment(): CompileIdentifierMetadata { return unimplemented(); }\n\n/**\n * @return {?}\n
 *\nget renderNode(): CompileIdentifierMetadata { return unimplemented(); }\n\n/**\n * @return {?}\n *\nget
 renderEvent(): CompileIdentifierMetadata { return unimplemented(); }\n}\n\nexport class DefaultRenderTypes
 implements RenderTypes {\n\n/**\n * @return {?}\n *\nget renderer() { return createIdentifier(Identifiers.Renderer);
 }\n\nrenderText: any = null;\n\nrenderElement: any = null;\n\nrenderComment: any = null;\n\nrenderNode: any =
 null;\n\nrenderEvent: any = null;\n}\n\nfunction DefaultRenderTypes_tsickle_Closure_declarations() {\n\n/** @type
 {?} */\nDefaultRenderTypes.prototype.renderText;\n\n/** @type {?}
 *\nDefaultRenderTypes.prototype.renderElement;\n\n/** @type {?}
 *\nDefaultRenderTypes.prototype.renderComment;\n\n/** @type {?}
 *\nDefaultRenderTypes.prototype.renderNode;\n\n/** @type {?}
 *\nDefaultRenderTypes.prototype.renderEvent;\n}\n\ninterface DecoratorInvocation {\n\n type: Function;\n\n args?:
 any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/config.js.map

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Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\nimport {SecurityContext} from '@angular/core';\n\nimport
{createCheckBindingField, createCheckBindingStmt} from './compiler_util/binding_util';\n\nimport
{ConvertPropertyBindingResult, convertPropertyBinding} from './compiler_util/expression_converter';\n\nimport
{createEnumExpression} from './compiler_util/identifier_util';\n\nimport {triggerAnimation, writeToRenderer} from
'./compiler_util/render_util';\n\nimport {DirectiveWrapperExpressions} from
'./directive_wrapper_compiler';\n\nimport {Identifiers, createIdentifier} from './identifiers';\n\nimport * as o from
'./output/output_ast';\n\nimport {isDefaultChangeDetectionStrategy} from './private_import_core';\n\nimport
{ElementSchemaRegistry} from './schema/element_schema_registry';\n\nimport {BoundElementPropertyAst,
BoundEventAst, BoundTextAst, DirectiveAst, PropertyBindingType} from
'./template_parser/template_ast';\n\nimport {CompileElement, CompileNode} from './compile_element';\n\nimport
{CompileView} from './compile_view';\n\nimport {DetectChangesVars} from './constants';\n\nimport
{getHandleEventMethodName} from './util';\n\n/**\n * @param {?} boundText\n * @param {?} compileNode\n *
@param {?} view\n * @return {?} }\n */\n\nexport function bindRenderText(\n  boundText: BoundTextAst,\n  compileNode: CompileNode,\n  view: CompileView): void {\n  const /** @type {?} */ valueField =
createCheckBindingField(view);\n  const /** @type {?} */ evalResult = convertPropertyBinding(\n    view, view,\n    view.componentContext, boundText.value, valueField.bindingId);\n  if (!evalResult) {\n    return null;\n  }\n  view.detectChangesRenderPropertiesMethod.resetDebugInfo(compileNode.nodeIndex, boundText);\n  view.detectChangesRenderPropertiesMethod.addStmts(createCheckBindingStmt(\n    evalResult,\n    valueField.expression, DetectChangesVars.throwOnChange,\n    [o.THIS_EXPR.prop('renderer')\n      .callMethod('setText', [compileNode.renderNode, evalResult.currValExpr])\n        .toStmt()]);\n  }\n\n\n  /**\n   * @param {?} boundProps\n   * @param {?} boundOutputs\n   * @param {?} hasEvents\n   * @param {?}
compileElement\n   * @return {?} }\n */\n\n  export function bindRenderInputs(\n    boundProps:
BoundElementPropertyAst[],\n    boundOutputs: BoundEventAst[],\n    hasEvents: boolean,\n    compileElement:
CompileElement) {\n    const /** @type {?} */ view = compileElement.view;\n    const /** @type {?} */ renderNode
= compileElement.renderNode;\n\n    boundProps.forEach((boundProp) => {\n      const /** @type {?} */ bindingField
= createCheckBindingField(view);\n\n      view.detectChangesRenderPropertiesMethod.resetDebugInfo(compileElement.nodeIndex, boundProp);\n      const
/** @type {?} */ evalResult = convertPropertyBinding(\n        view, view,\n        compileElement.view.componentContext, boundProp.value, bindingField.bindingId);\n      if (!evalResult) {\n        return;\n      }\n      const /** @type {?} */ checkBindingStmts: o.Statement[] = [];\n      let /** @type {?} */
compileMethod = view.detectChangesRenderPropertiesMethod;\n      switch (boundProp.type) {\n        case
PropertyBindingType.Property:\n          case PropertyBindingType.Attribute:\n          case PropertyBindingType.Class:\n          case
PropertyBindingType.Style:\n            checkBindingStmts.push(...writeToRenderer(\n              o.THIS_EXPR,\n              boundProp, renderNode, evalResult.currValExpr,\n                view.genConfig.logBindingUpdate));\n            break;\n          case
PropertyBindingType.Animation:\n            compileMethod = view.animationBindingsMethod;\n            const
{updateStmts, detachStmts} = triggerAnimation(\n              o.THIS_EXPR, o.THIS_EXPR, boundProp,\n              boundOutputs,\n                (hasEvents ?\n                  o.THIS_EXPR.prop(getHandleEventMethodName(compileElement.nodeIndex)) : \n                    o.importExpr(createIdentifier(Identifiers.noop)))\n                  .callMethod(o.BuiltinMethod.Bind, [o.THIS_EXPR]),\n\n

```

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        compileElement.renderNode, evalResult.currValExpr, bindingField.expression);\n
    checkBindingStmts.push(...updateStmts);\n    view.detachMethod.addStmts(detachStmts);\n    break;\n };\n
    compileMethod.addStmts(createCheckBindingStmt(\n    evalResult, bindingField.expression,\n    DetectChangesVars.throwOnChange, checkBindingStmts));\n });\n\n/**\n * @param {?} directiveAst\n * @param {?} directiveWrapperInstance\n * @param {?} compileElement\n * @param {?} elementName\n * @param {?} schemaRegistry\n * @return {?}\n */\nexport function bindDirectiveHostProps(\n    directiveAst: DirectiveAst, directiveWrapperInstance: o.Expression,\n    compileElement: CompileElement, elementName: string,\n    schemaRegistry: ElementSchemaRegistry): void {\n    // We need to provide the SecurityContext for properties that could need sanitization.\n    const /** @type {?} */ runtimeSecurityCtxExprs =\n    directiveAst.hostProperties.filter(boundProp => boundProp.needsRuntimeSecurityContext)\n    .map((boundProp) => {\n        let /** @type {?} */ ctx: SecurityContext;\n        switch (boundProp.type) {\n            case PropertyBindingType.Property:\n                ctx = schemaRegistry.securityContext(elementName, boundProp.name, false);\n                break;\n            case PropertyBindingType.Attribute:\n                ctx = schemaRegistry.securityContext(elementName, boundProp.name, true);\n                break;\n            default:\n                throw new Error(\n                    `Illegal state: Only property / attribute bindings can have an unknown security context! Binding ${boundProp.name}`);\n                }\n            return createEnumExpression(Identifiers.SecurityContext, ctx);\n        });\n    compileElement.view.detectChangesRenderPropertiesMethod.addStmts(\n    DirectiveWrapperExpressions.checkHost(\n        directiveAst.hostProperties, directiveWrapperInstance, o.THIS_EXPR,\n        compileElement.compViewExpr || o.THIS_EXPR, compileElement.renderNode,\n        DetectChangesVars.throwOnChange, runtimeSecurityCtxExprs));\n\n    /**\n     * @param {?} directiveAst\n     * @param {?} directiveWrapperInstance\n     * @param {?} dirIndex\n     * @param {?} compileElement\n     * @return {?}\n     */\n    export function bindDirectiveInputs(\n        directiveAst: DirectiveAst, directiveWrapperInstance: o.Expression,\n        dirIndex: number,\n        compileElement: CompileElement) {\n        const /** @type {?} */ view = compileElement.view;\n        const /** @type {?} */ detectChangesInInputsMethod = view.detectChangesInInputsMethod;\n        detectChangesInInputsMethod.resetDebugInfo(compileElement.nodeIndex, compileElement.sourceAst);\n        \n        directiveAst.inputs.forEach((input, inputIdx) => {\n            // Note: We can't use `fields.length` here, as we are not adding a field!\n            const /** @type {?} */ bindingId = `${compileElement.nodeIndex}_${dirIndex}_${inputIdx}`;\n            detectChangesInInputsMethod.resetDebugInfo(compileElement.nodeIndex, input);\n            const /** @type {?} */ evalResult =\n                convertPropertyBinding(view, view, view.componentContext, input.value, bindingId);\n            if (!evalResult) {\n                return;\n            }\n            detectChangesInInputsMethod.addStmts(evalResult.stmts);\n            detectChangesInInputsMethod.addStmt(\n                directiveWrapperInstance\n                    .callMethod(\n                        `check_${input.directiveName}`,\n                        [\n                            evalResult.currValExpr,\n                            DetectChangesVars.throwOnChange,\n                            evalResult.forceUpdate || o.literal(false)\n                        ])\n                    .toStmt());\n        });\n        const /** @type {?} */ isOnPushComp = directiveAst.directive.isComponent &&\n            !isDefaultChangeDetectionStrategy(directiveAst.directive.changeDetection);\n        const /** @type {?} */ directiveDetectChangesExpr = DirectiveWrapperExpressions.ngDoCheck(\n            directiveWrapperInstance, o.THIS_EXPR, compileElement.renderNode,\n            DetectChangesVars.throwOnChange);\n        const /** @type {?} */ directiveDetectChangesStmt = isOnPushComp\n            ?\n                new o.IfStmt(\n                    directiveDetectChangesExpr,\n                    [compileElement.compViewExpr.callMethod('markAsCheckOnce', []).toStmt()])\n            :\n            directiveDetectChangesExpr.toStmt();\n        detectChangesInInputsMethod.addStmt(directiveDetectChangesStmt);\n    }\n\n    interface DecoratorInvocation {\n        type: Function;\n        args?: any[];\n    }\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/view_compiler/property_binder.js.map

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No license file was found, but licenses were detected in source scan.

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```

Found in path(s):

```
*/opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/testing/private_import_core.js.map  
No license file was found, but licenses were detected in source scan.
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```

Found in path(s):

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*/opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/compiler_options.js.map  
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```



```

string]: boolean;}\n parentToAdd: string;}\n implicitNamespacePrefix: string;}\n contentType: TagContentType =
TagContentType.PARSABLE_DATA;}\n isVoid: boolean = false;}\n ignoreFirstLf: boolean = false;}\n
canSelfClose: boolean = true;}\n/**\n * @param {?} currentParent\n * @return {?}\n
*\nrequireExtraParent(currentParent: string): boolean { return false; }\n/**\n * @param {?} name\n * @return
{?}\n *\nisclosedByChild(name: string): boolean { return false; }\n}\n\nfunction
XmlTagDefinition_tsickle_Closure_declarations() {\n /** @type {?}
*\nXmlTagDefinition.prototype.closedByParent;\n /** @type {?}
*\nXmlTagDefinition.prototype.requiredParents;\n /** @type {?} *\nXmlTagDefinition.prototype.parentToAdd;\n
/** @type {?} *\nXmlTagDefinition.prototype.implicitNamespacePrefix;\n /** @type {?}
*\nXmlTagDefinition.prototype.contentType;\n /** @type {?} *\nXmlTagDefinition.prototype.isVoid;\n /**
@type {?} *\nXmlTagDefinition.prototype.ignoreFirstLf;\n /** @type {?}
*\nXmlTagDefinition.prototype.canSelfClose;\n}\n\nconst /** @type {?} */ _TAG_DEFINITION = new
XmlTagDefinition();}\n/**\n * @param {?} tagName\n * @return {?}\n *\nexport function
getXmlTagDefinition(tagName: string): XmlTagDefinition {\n return _TAG_DEFINITION;\n}\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml_parser/xml_tags.js.map
No license file was found, but licenses were detected in source scan.

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AAS,EAAE,WAAW,EAAE,eAAe,CAAC,IAAI,MAAM,CAAC;gBAC3F,MAAM;oBACF,IAAI,CAAC,aAAa,CAAC,IAAI,CAAC,gBAAgB,EAAE,SAAS,EAAE,WAAW,EAAE,eAAe,CAAC;wBACIF,MAAM,CAAC;YACb,CAAC;QACH,CAAC;QAED,EAAE,CAAC,CAAC,KAAC,CAAC,CAAC,CAAC;YACV,GAAG,CAAC,CAAC,IAAI,gBAAgB,CAAC,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,KAAC,CAAC,MAAM,EAAE,CAAC,IAAI,CAAC,EAAE,CAAC;gBAC1D,IAAM,gBAAgB,CAAC,MAAI,GAAG,KAAC,CAAC,CAAC,CAAC,CAAC;gBACvC,IAAM,gBAAgB,CAAC,KAAC,GAAG,KAAC,CAAC,CAAC,GAAG,CAAC,CAAC,CAAC;gBAE5C,IAAM,gBAAgB,CAAC,iBAAiB,GAAG,IAAI,CAAC,aAAa,CAAC,GAAG,CAAC,MAAI,CAAC,CAAC;gBACxE,EAAE,CAAC,CAAC,KAAC,CAAC,CAAC,CAAC;oBACV,MAAM;wBACF,IAAI,CAAC,cAAc,CAAC,iBAAiB,EAAE,EAAE,EAAE,WAAW,EAAE,eAAe,CAAC,IAAI,MAAM,CAAC;gBACzF,CAAC;gBACD,MAAM;oBACF,IAAI,CAAC,cAAc,CAAC,iBAAiB,EAAE,KAAC,EAAE,WAAW,EAAE,eAAe,CAAC,IAAI,MAAM,CAAC;gBAE1F,IAAM,gBAAgB,CAAC,gBAAgB,GAAG,IAAI,CAAC,oBAAoB,CAAC,GAAG,CAAC,MAAI,CAAC,CAAC;gBAC9E,EAAE,CAAC,CAAC,KAAC,CAAC,CAAC,CAAC;oBACV,MAAM,GAAG,IAAI,CAAC,aAAa,CAAC,gBAAgB,EAAE,EAAE,EAAE,WAAW,EAAE,eAAe,CAAC,IAAI,MAAM,CAAC;gBAC5F,CAAC;gBACD,MAAM;oBACF,IAAI,CAAC,aAAa,CAAC,gBAAgB,EAAE,KAAC,EAAE,WAAW,EAAE,eAAe,CAAC,IAAI,MAAM,CAAC;YAC1F,CAAC;QACH,CAAC;QACD,MAAM,CAAC,MAAM,CAAC;IACHb,CAAC;IACH;,,,,;OAMG;IACH,wCAAc,GAAd,UACM,GAAMc,EAAE,IAAY,EAAE,WAAwB,EAC3E,eAAiD;QACnD,EAAE,CAAC,CAAC,CAAC,GAAG,IAAI,OAAO,IAAI,KAAC,QAAQ,CAAC,CAAC,CAAC;YACrC,MAAM,CAAC,KAAC,CAAC;QACf,CAAC;QAED,IAAI,gBAAgB,CAAC,WAAW,GAAsB,GAAG,CAAC,GAAG,CAAC,IAAI,CAAC,IAAI,EAAE,CAAC;QAC1E,IAAM,gBAAgB,CAAC,eAAe,GAAsB,GAAG,CAAC,GAAG,CAAC,GAAG,CAAC,CAAC;QACzE,EAAE,CAAC,CAAC,eAAe,CAAC,CAAC,CAAC;YACpB,WAAW,GAAG,WAAW,CAAC,MAAM,CAAC,eAAe,CAAC,CAAC;QACpD,CAAC;QACD,EAAE,CAAC,CAAC,WAAW,CAAC,MAAM,KAAC,CAAC,CAAC,CAAC,CAAC;YAC7B,MAAM,CAAC,KAAC,CAAC;QACf,CAAC;QACD,IAAI,gBAAgB,CAAC,UAA2B,CAAC;QACjD,IAAI,gBAAgB,CAAC,MAAM,GAAG,KAAC,CAAC;QACpC,GAAG,CAAC,CAAC,IAAI,gBAAgB,CAAC,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,WAAW,CAAC,MAAM,EAAE,CAAC,EAAE,EAAE,CAAC;YAC7D,UAAU,GAAG,WAAW,CAAC,CAAC,CAAC,CAAC;YAC5B,MAAM,GAAG,UAAU,CAAC,QAAQ,CAAC,WAAW,EAAE,eAAe,CAAC,IAAI,MAAM,CAAC;QACvE,CAAC;QACD,MAAM,CAAC,MAAM,CAAC;IACHb,CAAC;IACH;,,,,;OAMG;IACH,uCAAA,GAAb,UACM,GAAiC,EAAE,IAAY,EAAE,WAAwB,EACzE,eAAiD;QACnD,EAAE,CAAC,CAAC,CAAC,GAAG,IAAI,OAAO,IAAI,KAAC,QAAQ,CAAC,CAAC,CAAC;YACrC,MAAM,CAAC,KAAC,CAAC;QACf,CAAC;QAED,IAAM,gBAAgB,CAAC,cAAc,GAAG,GAAG,CAAC,GAAG,CAAC,IAAI,CAAC,CAAC;QACtD,EAAE,CAAC,CAAC,CAAC,cAAc,CAAC,CAAC,CAAC;YACpB,MAAM,CAAC,KAAC,CAAC;QACf,CAAC;QACD,qDAAqD;QACrD,gEAAgE;QACHE,mCAAmC;QACnC,MAAM,CAAC,cAAc,CAAC,KAAC,CAAC,WAAW,EAAE,eAAe,CAAC,CAAC;IAC5D,CAAC;IACH,sBAAC;AAAD,CAAC,AArOD,IAqOC;AAED;IACC,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,WAAW,CAAC;IACrC,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,kBAAkB,CAAC;IAC5C,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,SAAS,CAAC;IACnC,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,gBAAgB,CAAC;IAC1C,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,aAAa,CAAC;IACvC,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,oBAAoB,CAAC;IAC9C,gBAAgB;IACjB,eAAe,CAAC,SAAS,CAAC,aAAa,CAAC;AACxC,CAAC;AAID;IAEA;:OAE;IACH,6BAAmB,SAAwB;QAAXB,cAAS,GAAT,SAAS,CAAE;QAJzC,mBAAC,GAAY,KAAC,CAAC;IAIY,CAAC;IAC/C,0BAAC;AAAD,CAAC,AAND,IAMC;AAED;IACC,gBAAgB;IACjB,mBAAmB,CAAC,SAAS,CAAC,cAAc,CAAC;IAC5C,gBAAgB;IACjB,mBAAmB,CAAC,SAAS,CAAC,SAAS,CAAC;AACxC,CAAC;AAGD,6EAA6E;AAC7E;IAEA;:;OAI;IACH,yBACO,QAAqB,EACrB,SAAc,EACd,WAAgC;QAFhC,aAAQ,GAAR,QAAQ,CAAa;QACrB,cAAS,GAAT,SAAS,CAAK;QACd,gBAAW,GAAX,WAAW,CAAqB;QACnC,IAAI,CAAC,YAAY,GAAG,QAAQ,CAAC,YAAY,CAAC;IAC5C,CAAC;IACH;:;OAI;IACH,kCAAQ,GAAR,UAAS,WAAwB,EAAE,QAAOC;QACzE,IAAI,gBAAgB,CAAC,MAAM,GAAG,IAAI,CAAC;QACnC,EAAE,CAAC,CAAC,IAAI,CAAC,YAAY,CAAC,MAAM,GAAG,CAAC,IAAI,CAAC,CAAC,IAAI,CAAC,WAAW,IAAI,CAAC,IAAI,CAAC,WAAW,CAAC,cAAc,CAAC,CAAC,CAAC,CAAC;YAC5F,IAAM,gBAAgB,CAAC,UAAU,GAAG,eAAe,CAAC,gBAAgB,CAAC,IAAI,CAAC,YAAY,CAAC,CAAC;YACxF,MAAM,GAAG,CAAC,UAAU,CAAC,KAAC,CAAC,WAAW,EAAE,IAAI,CAAC,CAAC;QACHD,CAAC;QACD,EAAE,CAAC,CAAC,MAAM,IAAI,QAAQ,IAAI,CAAC,CAAC,IAAI,CAAC,WAAW,IAAI,CAAC,IAAI,





```

/** @type {?} */ result = false;\n  const /** @type {?} */ element = cssSelector.element;\n  const /** @type {?}
*/ classNames = cssSelector.classNames;\n  const /** @type {?} */ attrs = cssSelector.attrs;\n\n  for (let /**
@type {?} */ i = 0; i < this._listContexts.length; i++) {\n    this._listContexts[i].alreadyMatched = false;\n  }\n\n  result = this._matchTerminal(this._elementMap, element, cssSelector, matchedCallback) || result;\n  result =
this._matchPartial(this._elementPartialMap, element, cssSelector, matchedCallback) ||\n    result;\n\n  if
(classNames) {\n    for (let /** @type {?} */ i = 0; i < classNames.length; i++) {\n      const /** @type {?} */
className = classNames[i];\n      result =\n        this._matchTerminal(this._classMap, className, cssSelector,
matchedCallback) || result;\n      result =\n        this._matchPartial(this._classPartialMap, className, cssSelector,
matchedCallback) ||\n        result;\n    }\n  }\n\n  if (attrs) {\n    for (let /** @type {?} */ i = 0; i < attrs.length;
i += 2) {\n      const /** @type {?} */ name = attrs[i];\n      const /** @type {?} */ value = attrs[i + 1];\n\n      const /** @type {?} */ terminalValuesMap = this._attrValueMap.get(name);\n      if (value) {\n        result =\n          this._matchTerminal(terminalValuesMap, value, cssSelector, matchedCallback) || result;\n      }\n      result =\n        this._matchTerminal(terminalValuesMap, value, cssSelector, matchedCallback) || result;\n      const /** @type
{?} */ partialValuesMap = this._attrValuePartialMap.get(name);\n      if (value) {\n        result =
this._matchPartial(partialValuesMap, value, cssSelector, matchedCallback) || result;\n      }\n      result =\n        this._matchPartial(partialValuesMap, value, cssSelector, matchedCallback) || result;\n    }\n  }\n  return result;\n
}\n\n/**\n * @param {?} map\n * @param {?} name\n * @param {?} cssSelector\n * @param {?}
matchedCallback\n * @return {?}\n */\n *^_matchTerminal(\n  map: Map<string, SelectorContext[]>, name: string,
cssSelector: CssSelector,\n  matchedCallback: (c: CssSelector, a: any) => void): boolean {\n  if (!map || typeof
name !== 'string') {\n    return false;\n  }\n\n  let /** @type {?} */ selectables: SelectorContext[] =
map.get(name) || [];\n  const /** @type {?} */ starSelectables: SelectorContext[] = map.get('*');\n  if
(starSelectables) {\n    selectables = selectables.concat(starSelectables);\n  }\n  if (selectables.length === 0) {\n
return false;\n  }\n  let /** @type {?} */ selectable: SelectorContext;\n  let /** @type {?} */ result = false;\n
for (let /** @type {?} */ i = 0; i < selectables.length; i++) {\n    selectable = selectables[i];\n    result =
selectable.finalize(cssSelector, matchedCallback) || result;\n  }\n  return result;\n }\n\n/**\n * @param {?} map\n * @param {?} name\n * @param {?} cssSelector\n * @param {?} matchedCallback\n * @return {?}\n
*/\n *^_matchPartial(\n  map: Map<string, SelectorMatcher>, name: string, cssSelector: CssSelector,\n  matchedCallback: (c: CssSelector, a: any) => void): boolean {\n  if (!map || typeof name !== 'string') {\n    return
false;\n  }\n\n  const /** @type {?} */ nestedSelector = map.get(name);\n  if (!nestedSelector) {\n    return
false;\n  }\n  // TODO(perf): get rid of recursion and measure again\n  // TODO(perf): don't pass the whole
selector into the recursion,\n  // but only the not processed parts\n  return nestedSelector.match(cssSelector,
matchedCallback);\n }\n}\n\nfunction SelectorMatcher_tsickle_Closure_declarations() {\n /** @type {?}
*/\n *^_SelectorMatcher.prototype._elementMap;\n /** @type {?}
*/\n *^_SelectorMatcher.prototype._elementPartialMap;\n /** @type {?} */\n *^_SelectorMatcher.prototype._classMap;\n
/** @type {?} */\n *^_SelectorMatcher.prototype._classPartialMap;\n /** @type {?}
*/\n *^_SelectorMatcher.prototype._attrValueMap;\n /** @type {?}
*/\n *^_SelectorMatcher.prototype._attrValuePartialMap;\n /** @type {?}
*/\n *^_SelectorMatcher.prototype._listContexts;\n }\n\n\nexport class SelectorListContext {\n  alreadyMatched:
boolean = false;\n /**\n * @param {?} selectors\n */\n *^_constructor(public selectors: CssSelector[]) {\n }\n}\n\nfunction
SelectorListContext_tsickle_Closure_declarations() {\n /** @type {?}
*/\n *^_SelectorListContext.prototype.alreadyMatched;\n /** @type {?}
*/\n *^_SelectorListContext.prototype.selectors;\n }\n\n\n// Store context to pass back selector and context when a
selector is matched\nexport class SelectorContext {\n  notSelectors: CssSelector[];\n /**\n * @param {?} selector\n
* @param {?} cbContext\n * @param {?} listContext\n */\n *^_constructor(\n  public selector: CssSelector,\n  public
cbContext: any,\n  public listContext: SelectorListContext) {\n    this.notSelectors = selector.notSelectors;\n  }\n /**\n
* @param {?} cssSelector\n * @param {?} callback\n * @return {?}\n */\n *^_finalize(cssSelector: CssSelector,
callback: (c: CssSelector, a: any) => void): boolean {\n  let /** @type {?} */ result = true;\n  if
(this.notSelectors.length > 0 && (!this.listContext || !this.listContext.alreadyMatched)) {\n    const /** @type {?}
*/

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*/ notMatcher = SelectorMatcher.createNotMatcher(this.notSelectors);\n    result = !notMatcher.match(cssSelector,\nnull);\n    }\n    if (result && callback && (!this.listContext || !this.listContext.alreadyMatched)) {\n        if\n(this.listContext) {\n            this.listContext.alreadyMatched = true;\n        }\n        callback(this.selector,\nthis.cbContext);\n    }\n    return result;\n}\n\nfunction SelectorContext_tsickle_Closure_declarations() {\n    /**\n    @type {?} *\n    SelectorContext.prototype.notSelectors;\n    /**\n    @type {?} *\n    SelectorContext.prototype.selector;\n    /**\n    @type {?} *\n    SelectorContext.prototype.cbContext;\n    /**\n    @type {?} *\n    SelectorContext.prototype.listContext;\n}\n\ninterface DecoratorInvocation {\n    type: Function;\n    args?:\nany[];\n}\n}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/selector.js.map

No license file was found, but licenses were detected in source scan.

/\*\*

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\* @abstract

\*/

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/animation/animation\_ast.js

No license file was found, but licenses were detected in source scan.

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CAAC", "sourcesContent":["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of  
this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at  
<https://angular.io/license>\n \*\nimport \* as html from './ml\_parser/ast';\nimport {InterpolationConfig} from  
 './ml\_parser/interpolation\_config';\nimport {ParseTreeResult} from './ml\_parser/parser';\nimport \* as i18n from  
 './i18n\_ast';\nimport {createI18nMessageFactory} from './i18n\_parser';\nimport {I18nError} from  
 './parse\_util';\nimport {TranslationBundle} from './translation\_bundle';\n\nconst /\*\* @type {?} \*/ \_I18N\_ATTR =  
 'i18n';\nconst /\*\* @type {?} \*/ \_I18N\_ATTR\_PREFIX = 'i18n-';\nconst /\*\* @type {?} \*/  
 \_I18N\_COMMENT\_PREFIX\_REGEXP = /^i18n:?\n/\*\*\n \* Extract translatable messages from an html AST\n \*/

```

@param {?} nodes\n * @param {?} interpolationConfig\n * @param {?} implicitTags\n * @param {?}
implicitAttrs\n * @return {?} \n *^\nexport function extractMessages(\n nodes: html.Node[], interpolationConfig:
InterpolationConfig, implicitTags: string[],\n implicitAttrs: {[k: string]: string[]}): ExtractionResult {\n const /**
@type {?} */ visitor = new _Visitor(implicitTags, implicitAttrs);\n return visitor.extract(nodes,
interpolationConfig);\n}\n/**\n * @param {?} nodes\n * @param {?} translations\n * @param {?}
interpolationConfig\n * @param {?} implicitTags\n * @param {?} implicitAttrs\n * @return {?} \n *^\nexport
function mergeTranslations(\n nodes: html.Node[], translations: TranslationBundle, interpolationConfig:
InterpolationConfig,\n implicitTags: string[], implicitAttrs: {[k: string]: string[]}): ParseTreeResult {\n const /**
@type {?} */ visitor = new _Visitor(implicitTags, implicitAttrs);\n return visitor.merge(nodes, translations,
interpolationConfig);\n}\n\nexport class ExtractionResult {\n/**\n * @param {?} messages\n * @param {?}
errors\n *^\nconstructor(public messages: i18n.Message[],\npublic errors: I18nError[]) {} \n}\n\nfunction
ExtractionResult_tsickle_Closure_declarations() {\n/** @type {?} */^\nExtractionResult.prototype.messages;\n/**
@type {?} */^\nExtractionResult.prototype.errors;\n}\n\ntype _VisitorMode = number;\nlet _VisitorMode: any =
{};\n_VisitorMode.Extract = 0;\n_VisitorMode.Merge = 1;\n_VisitorMode[_VisitorMode.Extract] =
'Extract';\n_VisitorMode[_VisitorMode.Merge] = 'Merge';\n\n/**\n * This Visitor is used:\n * 1. to extract all
the translatable strings from an html AST (see `extract`),\n * 2. to replace the translatable strings with the actual
translations (see `merge`)\n * *\n */^\nclass _Visitor implements html.Visitor {\nprivate _inI18nNode:
boolean;\nprivate _depth: number;\nprivate _inImplicitNode: boolean;\nprivate _blockMeaningAndDesc:
string;\nprivate _blockChildren: html.Node[];\nprivate _blockStartDepth: number;\nprivate _inI18nBlock:
boolean;\nprivate _inIcu: boolean;\nprivate _msgCountAtSectionStart: number;\nprivate _errors:
I18nError[];\nprivate _mode: _VisitorMode;\nprivate _messages: i18n.Message[];\nprivate _translations:
TranslationBundle;\nprivate _createI18nMessage:\n (msg: html.Node[], meaning: string, description: string) =>
i18n.Message;\n/**\n * @param {?} _implicitTags\n * @param {?} _implicitAttrs\n *^\nconstructor(private
_implicitTags: string[],\nprivate _implicitAttrs: {[k: string]: string[]}) {} \n/**\n * Extracts the messages from the
tree\n * @param {?} nodes\n * @param {?} interpolationConfig\n * @return {?} \n *^\nextract(nodes: html.Node[],
interpolationConfig: InterpolationConfig): ExtractionResult {\n this._init(_VisitorMode.Extract,
interpolationConfig);\n\n nodes.forEach(node => node.visit(this, null));\n\n if (this._inI18nBlock) {\n
this._reportError(nodes[nodes.length - 1], 'Unclosed block');\n }\n\n return new
ExtractionResult(this._messages, this._errors);\n }\n/**\n * Returns a tree where all translatable nodes are
translated\n * @param {?} nodes\n * @param {?} translations\n * @param {?} interpolationConfig\n * @return
{} \n *^\nmerge(\n nodes: html.Node[], translations: TranslationBundle,\n interpolationConfig:
InterpolationConfig): ParseTreeResult {\n this._init(_VisitorMode.Merge, interpolationConfig);\n
this._translations = translations;\n\n // Construct a single fake root element\n const /** @type {?} */ wrapper =
new html.Element('wrapper', [], nodes, null, null, null);\n\n const /** @type {?} */ translatedNode =
wrapper.visit(this, null);\n\n if (this._inI18nBlock) {\n this._reportError(nodes[nodes.length - 1], 'Unclosed
block');\n }\n\n return new ParseTreeResult(translatedNode.children, this._errors);\n }\n/**\n * @param {?}
icuCase\n * @param {?} context\n * @return {?} \n *^\nvisitExpansionCase(icuCase: html.ExpansionCase, context:
any): any {\n // Parse cases for translatable html attributes\n const /** @type {?} */ expression =
html.visitAll(this, icuCase.expression, context);\n\n if (this._mode === _VisitorMode.Merge) {\n return new
html.ExpansionCase(\n icuCase.value, expression, icuCase.sourceSpan, icuCase.valueSourceSpan,\n
icuCase.expSourceSpan);\n }\n }\n/**\n * @param {?} icu\n * @param {?} context\n * @return {?} \n *^\n
visitExpansion(icu: html.Expansion, context: any): html.Expansion {\n
this._maybeAddBlockChildren(icu);\n\n const /** @type {?} */ wasInIcu = this._inIcu;\n\n if (!this._inIcu) {\n
// nested ICU messages should not be extracted but top-level translated as a whole\n if
(this._isInTranslatableSection) {\n this._addMessage([icu]);\n }\n this._inIcu = true;\n }\n\n const /**
@type {?} */ cases = html.visitAll(this, icu.cases, context);\n\n if (this._mode === _VisitorMode.Merge) {\n
icu = new html.Expansion(\n icu.switchValue, icu.type, cases, icu.sourceSpan, icu.switchValueSourceSpan);\n
}\n\n this._inIcu = wasInIcu;\n\n return icu;\n }\n/**\n * @param {?} comment\n * @param {?} context\n *

```



```

}\n/**\n * @param {?} attribute\n * @param {?} context\n * @return {?}\n *\nvisitAttribute(attribute:
html.Attribute, context: any): any {\n  throw new Error('unreachable code');\n }\n/**\n * @param {?} mode\n *
@param {?} interpolationConfig\n * @return {?}\n *\nprivate _init(mode: _VisitorMode, interpolationConfig:
InterpolationConfig): void {\n  this._mode = mode;\n  this._inI18nBlock = false;\n  this._inI18nNode = false;\n
this._depth = 0;\n  this._inIcu = false;\n  this._msgCountAtSectionStart = void 0;\n  this._errors = [];\n
this._messages = [];\n  this._inImplicitNode = false;\n  this._createI18nMessage =
createI18nMessageFactory(interpolationConfig);\n }\n/**\n * @param {?} el\n * @return {?}\n *\nprivate
_visitAttributesOf(el: html.Element): void {\n  const /** @type {?} */ explicitAttrNameToValue: {[k: string]:
string} = {};\n  const /** @type {?} */ implicitAttrNames: string[] = this._implicitAttrs[el.name] || [];\n\n
el.attrs.filter(attr => attr.name.startsWith(_I18N_ATTR_PREFIX))\n    .forEach(\n      attr =>
explicitAttrNameToValue[attr.name.slice(_I18N_ATTR_PREFIX.length)] =\n        attr.value);\n\n
el.attrs.forEach(attr => {\n  if (attr.name in explicitAttrNameToValue) {\n    this._addMessage([attr],
explicitAttrNameToValue[attr.name]);\n  } else if (implicitAttrNames.some(name => attr.name === name)) {\n
this._addMessage([attr]);\n  }\n});\n}\n/**\n * @param {?} ast\n * @param {?=} meaningAndDesc\n *
@return {?}\n *\nprivate _addMessage(ast: html.Node[], meaningAndDesc?: string): i18n.Message {\n  if
(ast.length == 0 ||\n  ast.length == 1 && ast[0] instanceof html.Attribute && !(/** @type {?}
*/((<<html.Attribute>ast[0])).value) {\n    // Do not create empty messages\n    return;\n  }\n\n  const [meaning,
description] = _splitMeaningAndDesc(meaningAndDesc);\n  const /** @type {?} */ message =
this._createI18nMessage(ast, meaning, description);\n  this._messages.push(message);\n  return message;\n
}\n/**\n * @param {?} el\n * @param {?} message\n * @return {?}\n *\nprivate _translateMessage(el: html.Node,
message: i18n.Message): html.Node[] {\n  if (message && this._mode === _VisitorMode.Merge) {\n    const /**
* @type {?} */ nodes = this._translations.get(message);\n    if (nodes) {\n      return nodes;\n    }\n\n
this._reportError(\n      el, `Translation unavailable for message id="\${this._translations.digest(message)}"\`);\n
}\n\n  return [];\n}\n/**\n * @param {?} el\n * @return {?}\n *\nprivate _translateAttributes(el: html.Element):
html.Attribute[] {\n  const /** @type {?} */ attributes = el.attrs;\n  const /** @type {?} */
i18nAttributeMeanings: {[name: string]: string} = {};\n  attributes.forEach(attr => {\n    if
(attr.name.startsWith(_I18N_ATTR_PREFIX)) {\n\n
i18nAttributeMeanings[attr.name.slice(_I18N_ATTR_PREFIX.length)] =\n      _splitMeaningAndDesc(attr.value)[0];\n    }\n  });\n\n  const /** @type {?} */ translatedAttributes:
html.Attribute[] = [];\n  attributes.forEach((attr => {\n    if (attr.name === _I18N_ATTR ||
attr.name.startsWith(_I18N_ATTR_PREFIX)) {\n      // strip i18n specific attributes\n      return;\n    }\n\n
if (attr.value && attr.value != " && i18nAttributeMeanings.hasOwnProperty(attr.name)) {\n      const /**
* @type {?} */
*/ meaning = i18nAttributeMeanings[attr.name];\n      const /** @type {?} */ message: i18n.Message =
this._createI18nMessage([attr], meaning, "");\n      const /** @type {?} */ nodes = this._translations.get(message);\n
      if (nodes) {\n        if (nodes[0] instanceof html.Text) {\n          const /** @type {?} */ value = (/ ** @type {?}
*/((nodes[0] as html.Text))).value;\n          translatedAttributes.push(new html.Attribute(attr.name, value,
attr.sourceSpan));\n        } else {\n          this._reportError(\n            el,\n            `Unexpected translation for
attribute "\${attr.name}" (id="\${this._translations.digest(message)})");\n          }\n        } else {\n\n
this._reportError(\n            el,\n            `Translation unavailable for attribute "\${attr.name}"
(id="\${this._translations.digest(message)})");\n          }\n        } else {\n          translatedAttributes.push(attr);\n
        }\n      });\n      return translatedAttributes;\n    }\n  });\n\n  /**\n * Add the node as a child of the block when:\n * - we are in a
block,\n * - we are not inside a ICU message (those are handled separately),\n * - the node is a "direct child" of
the block\n * @param {?} node\n * @return {?}\n *\nprivate _maybeAddBlockChildren(node: html.Node): void
{\n  if (this._inI18nBlock && !this._inIcu && this._depth == this._blockStartDepth) {\n\n
this._blockChildren.push(node);\n  }\n}\n/**\n * Marks the start of a section, see _endSection`\n * @param {?}
node\n * @return {?}\n *\nprivate _openTranslatableSection(node: html.Node): void {\n  if
(this._isInTranslatableSection) {\n    this._reportError(node, 'Unexpected section start');\n  } else {\n\n
this._msgCountAtSectionStart = this._messages.length;\n  }\n}\n/**\n * A translatable section could be:\n * - a

```







\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-  
tgz/package/src/ml\_parser/interpolation\_config.js.map  
No license file was found, but licenses were detected in source scan.

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static ElementRef: IdentifierSpec = {\n  name: 'ElementRef',\n  moduleUrl: assetUrl('core', 'linker/element_ref'),\n  runtime: ElementRef\n };
static ViewContainerRef: IdentifierSpec = {\n  name: 'ViewContainerRef',\n  moduleUrl: assetUrl('core', 'linker/view_container_ref'),\n  runtime: ViewContainerRef\n };
static ChangeDetectorRef: IdentifierSpec = {\n  name: 'ChangeDetectorRef',\n  moduleUrl: assetUrl('core', 'change_detection/change_detector_ref'),\n  runtime: ChangeDetectorRef\n };
static RenderComponentType: IdentifierSpec = {\n  name: 'RenderComponentType',\n  moduleUrl: assetUrl('core', 'render/api'),\n  runtime: RenderComponentType\n };
static QueryList: IdentifierSpec = {\n  name: 'QueryList',\n  moduleUrl: assetUrl('core', 'linker/query_list'),\n  runtime: QueryList\n };
static TemplateRef: IdentifierSpec = {\n  name: 'TemplateRef',\n  moduleUrl: assetUrl('core', 'linker/template_ref'),\n  runtime: TemplateRef\n };
static TemplateRef_: IdentifierSpec = {\n  name: 'TemplateRef_',\n  moduleUrl: assetUrl('core', 'linker/template_ref'),\n  runtime: TemplateRef_\n };
static CodegenComponentFactoryResolver: IdentifierSpec = {\n  name: 'CodegenComponentFactoryResolver',\n  moduleUrl: assetUrl('core', 'linker/component_factory_resolver'),\n  runtime: CodegenComponentFactoryResolver\n };
static ComponentFactoryResolver: IdentifierSpec = {\n  name: 'ComponentFactoryResolver',\n  moduleUrl: assetUrl('core', 'linker/component_factory_resolver'),\n  runtime: ComponentFactoryResolver\n };
static ComponentFactory: IdentifierSpec = {\n  name: 'ComponentFactory',\n  runtime: ComponentFactory,\n  moduleUrl: assetUrl('core', 'linker/component_factory')\n };
static ComponentRef_: IdentifierSpec = {\n  name: 'ComponentRef_',\n  runtime: ComponentRef_\n };
static ComponentRef: IdentifierSpec = {\n  name: 'ComponentRef',\n  runtime: ComponentRef,\n  moduleUrl: assetUrl('core', 'linker/component_factory')\n };
static NgModuleFactory: IdentifierSpec = {\n  name: 'NgModuleFactory',\n  runtime: NgModuleFactory,\n  moduleUrl: assetUrl('core', 'linker/ng_module_factory')\n };
static NgModuleInjector: IdentifierSpec = {\n  name: 'NgModuleInjector',\n  runtime: NgModuleInjector,\n  moduleUrl: assetUrl('core', 'linker/ng_module_factory_loader')\n };
static RegisterModuleFactoryFn: IdentifierSpec = {\n  name: 'registerModuleFactory',\n  runtime: registerModuleFactory,\n  moduleUrl: assetUrl('core', 'linker/ng_module_factory_loader')\n };
static ValueUnwrapper: IdentifierSpec = {\n  name: 'ValueUnwrapper',\n  moduleUrl: CD_MODULE_URL,\n  runtime: ValueUnwrapper\n };
static Injector: IdentifierSpec = {\n  name: 'Injector',\n  moduleUrl: assetUrl('core', 'di/injector'),\n  runtime: Injector\n };
static ViewEncapsulation: IdentifierSpec = {\n  name: 'ViewEncapsulation',\n  moduleUrl: assetUrl('core', 'metadata/view'),\n  runtime: ViewEncapsulation\n };
static ViewType: IdentifierSpec = {\n  name: 'ViewType',\n  moduleUrl: assetUrl('core', 'linker/view_type'),\n  runtime: ViewType\n };
static ChangeDetectionStrategy: IdentifierSpec = {\n  name: 'ChangeDetectionStrategy',\n  moduleUrl: CD_MODULE_URL,\n  runtime: ChangeDetectionStrategy\n };
static StaticNodeDebugInfo: IdentifierSpec = {\n  name: 'StaticNodeDebugInfo',\n  moduleUrl: assetUrl('core', 'linker/debug_context'),\n  runtime: StaticNodeDebugInfo\n };
static DebugContext: IdentifierSpec = {\n  name: 'DebugContext',\n  moduleUrl: assetUrl('core', 'linker/debug_context'),\n  runtime: DebugContext\n };
static Renderer: IdentifierSpec = {\n  name: 'Renderer',\n  moduleUrl: assetUrl('core', 'render/api'),\n  runtime: Renderer\n };
static SimpleChange: IdentifierSpec = {\n  name: 'SimpleChange',\n  moduleUrl: CD_MODULE_URL,\n  runtime: SimpleChange\n };
static UNINITIALIZED: IdentifierSpec = {\n  name: 'UNINITIALIZED',\n  moduleUrl: CD_MODULE_URL,\n  runtime: UNINITIALIZED\n };
static ChangeDetectorStatus: IdentifierSpec = {\n  name: 'ChangeDetectorStatus',\n  moduleUrl: CD_MODULE_URL,\n  runtime: ChangeDetectorStatus\n };
static checkBinding: IdentifierSpec = {\n  name: 'checkBinding',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime: view_utils.checkBinding\n };
static devModeEqual: IdentifierSpec = {\n  name: 'devModeEqual',\n  moduleUrl: CD_MODULE_URL,\n  runtime: devModeEqual\n };
static inlineInterpolate: IdentifierSpec = {\n  name: 'inlineInterpolate',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime: view_utils.inlineInterpolate\n };
static interpolate: IdentifierSpec = {\n  name: 'interpolate',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime: view_utils.interpolate\n };
static castByValue: IdentifierSpec = {\n  name: 'castByValue',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime: view_utils.castByValue\n };
static EMPTY_ARRAY: IdentifierSpec = {\n  name: 'EMPTY_ARRAY',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime:

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view_utils.EMPTY_ARRAY\n };\n static EMPTY_MAP: IdentifierSpec = {\n  name: 'EMPTY_MAP',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime: view_utils.EMPTY_MAP\n };\n static
createRenderElement: IdentifierSpec = {\n  name: 'createRenderElement',\n  moduleUrl:
VIEW_UTILS_MODULE_URL,\n  runtime: view_utils.createRenderElement\n };\n static
selectOrCreateRenderHostElement: IdentifierSpec = {\n  name: 'selectOrCreateRenderHostElement',\n
moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime: view_utils.selectOrCreateRenderHostElement\n };\n
static pureProxies: IdentifierSpec[] = [\n  null,\n  {name: 'pureProxy1', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy1},\n  {name: 'pureProxy2', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy2},\n  {name: 'pureProxy3', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy3},\n  {name: 'pureProxy4', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy4},\n  {name: 'pureProxy5', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy5},\n  {name: 'pureProxy6', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy6},\n  {name: 'pureProxy7', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy7},\n  {name: 'pureProxy8', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy8},\n  {name: 'pureProxy9', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy9},\n  {name: 'pureProxy10', moduleUrl:
VIEW_UTILS_MODULE_URL, runtime: view_utils.pureProxy10},\n ];\n static SecurityContext: IdentifierSpec =
{\n  name: 'SecurityContext',\n  moduleUrl: assetUrl('core', 'security'),\n  runtime: SecurityContext,\n };
\n static AnimationKeyframe: IdentifierSpec = {\n  name: 'AnimationKeyframe',\n  moduleUrl: assetUrl('core',
'animation/animation_keyframe'),\n  runtime: AnimationKeyframe\n };\n static AnimationStyles: IdentifierSpec =
{\n  name: 'AnimationStyles',\n  moduleUrl: assetUrl('core', 'animation/animation_styles'),\n  runtime:
AnimationStyles\n };\n static NoOpAnimationPlayer: IdentifierSpec = {\n  name: 'NoOpAnimationPlayer',\n
moduleUrl: assetUrl('core', 'animation/animation_player'),\n  runtime: NoOpAnimationPlayer\n };\n static
AnimationGroupPlayer: IdentifierSpec = {\n  name: 'AnimationGroupPlayer',\n  moduleUrl: assetUrl('core',
'animation/animation_group_player'),\n  runtime: AnimationGroupPlayer\n };\n static AnimationSequencePlayer:
IdentifierSpec = {\n  name: 'AnimationSequencePlayer',\n  moduleUrl: assetUrl('core',
'animation/animation_sequence_player'),\n  runtime: AnimationSequencePlayer\n };\n static
prepareFinalAnimationStyles: IdentifierSpec = {\n  name: 'prepareFinalAnimationStyles',\n  moduleUrl:
ANIMATION_STYLE_UTIL_ASSET_URL,\n  runtime: prepareFinalAnimationStyles\n };\n static
balanceAnimationKeyframes: IdentifierSpec = {\n  name: 'balanceAnimationKeyframes',\n  moduleUrl:
ANIMATION_STYLE_UTIL_ASSET_URL,\n  runtime: balanceAnimationKeyframes\n };\n static clearStyles:
IdentifierSpec = {\n  name: 'clearStyles',\n  moduleUrl: ANIMATION_STYLE_UTIL_ASSET_URL,\n
runtime: clearStyles\n };\n static renderStyles: IdentifierSpec = {\n  name: 'renderStyles',\n  moduleUrl:
ANIMATION_STYLE_UTIL_ASSET_URL,\n  runtime: renderStyles\n };\n static collectAndResolveStyles:
IdentifierSpec = {\n  name: 'collectAndResolveStyles',\n  moduleUrl:
ANIMATION_STYLE_UTIL_ASSET_URL,\n  runtime: collectAndResolveStyles\n };\n static LOCALE_ID:
IdentifierSpec = {\n  name: 'LOCALE_ID',\n  moduleUrl: assetUrl('core', 'i18n/tokens'),\n  runtime:
LOCALE_ID\n };\n static TRANSLATIONS_FORMAT: IdentifierSpec = {\n  name:
'TRANSLATIONS_FORMAT',\n  moduleUrl: assetUrl('core', 'i18n/tokens'),\n  runtime:
TRANSLATIONS_FORMAT\n };\n static setBindingDebugInfo: IdentifierSpec = {\n  name:
'setBindingDebugInfo',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime:
view_utils.setBindingDebugInfo\n };\n static setBindingDebugInfoForChanges: IdentifierSpec = {\n  name:
'setBindingDebugInfoForChanges',\n  moduleUrl: VIEW_UTILS_MODULE_URL,\n  runtime:
view_utils.setBindingDebugInfoForChanges\n };\n static AnimationTransition: IdentifierSpec = {\n  name:
'AnimationTransition',\n  moduleUrl: assetUrl('core', 'animation/animation_transition'),\n  runtime:
AnimationTransition\n };\n\n // This is just the interface!\n static InlineArray:\n  IdentifierSpec = {name:
'InlineArray', moduleUrl: VIEW_UTILS_MODULE_URL, runtime: null};\n static inlineArrays: IdentifierSpec[] =
[\n  {name: 'InlineArray2', moduleUrl: VIEW_UTILS_MODULE_URL, runtime: view_utils.InlineArray2},\n

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return `@angular/${pkg}/${type}/${path}`;\n }\n}\n\n/**\n * @param {?} identifier\n * @return {?}\n */\nexport
function resolveIdentifier(identifier: IdentifierSpec) {\n return reflector.resolveIdentifier(identifier.name,
identifier.moduleUrl, identifier.runtime);\n}\n\n/**\n * @param {?} identifier\n * @return {?}\n */\nexport function
createIdentifier(identifier: IdentifierSpec): CompileIdentifierMetadata {\n const /** @type {?} */ reference =\n reflector.resolveIdentifier(identifier.name, identifier.moduleUrl, identifier.runtime);\n return {reference:
reference};\n}\n\n/**\n * @param {?} identifier\n * @return {?}\n */\nexport function identifierToken(identifier:
CompileIdentifierMetadata): CompileTokenMetadata {\n return {identifier: identifier};\n}\n\n/**\n * @param {?}
identifier\n * @return {?}\n */\nexport function createIdentifierToken(identifier: IdentifierSpec):
CompileTokenMetadata {\n return identifierToken(createIdentifier(identifier));\n}\n\n/**\n * @param {?}
enumType\n * @param {?} name\n * @return {?}\n */\nexport function createEnumIdentifier(\n enumType:
IdentifierSpec, name: string): CompileIdentifierMetadata {\n const /** @type {?} */ resolvedEnum =
reflector.resolveEnum(resolveIdentifier(enumType), name);\n return {reference: resolvedEnum};\n}\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/identifiers.js.map

No license file was found, but licenses were detected in source scan.

```

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AiB,CAAC,SAAS,CAAC,UAAU,CAAC;AACvC,CAAC", "sourcesContent":["/\*\n \* @license\n \* Copyright  
Google Inc. All Rights Reserved.\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\nimport { CompileIdentifierMetadata,

```

identifierModuleUrl, identifierName} from './compile_metadata';\nimport {isBlank, isPresent} from
 './facade/lang';\n\nimport {AbstractEmitterVisitor, CATCH_ERROR_VAR, CATCH_STACK_VAR,
 EmitterVisitorContext, OutputEmitter} from './abstract_emitter';\nimport * as o from './output_ast';\nimport
 {ImportResolver} from './path_util';\n\nconst /** @type {?} */ _debugModuleUrl = '/debug/lib';\n\n/**\n * @param
 {?} ast\n * @return {?} \n * \nexport function debugOutputAstAsTypeScript(ast: o.Statement | o.Expression | o.Type
 | any[]):\n  string {\n  const /** @type {?} */ converter = new _TsEmitterVisitor(_debugModuleUrl);\n  const /**
 * @type {?} */ ctx = EmitterVisitorContext.createRoot([]);\n  const /** @type {?} */ asts: any[] = Array.isArray(ast)
 ? ast : [ast];\n\n  asts.forEach((ast) => {\n    if (ast instanceof o.Statement) {\n      ast.visitStatement(converter,
 ctx);\n    } else if (ast instanceof o.Expression) {\n      ast.visitExpression(converter, ctx);\n    } else if (ast instanceof
 o.Type) {\n      ast.visitType(converter, ctx);\n    } else {\n      throw new Error('Don't know how to print debug info
 for ${ast}`);\n    }\n  });\n  return ctx.toSource();\n}\n\nexport class TypeScriptEmitter implements OutputEmitter
{\n  /**\n   * @param {?} _importGenerator\n   * \nconstructor(private _importGenerator: ImportResolver) {\n  /**\n   *
 * @param {?} moduleUrl\n   * @param {?} stmts\n   * @param {?} exportedVars\n   * @return {?} \n
   * \nemitStatements(moduleUrl: string, stmts: o.Statement[], exportedVars: string[]): string {\n  const /** @type
 {?} */ converter = new _TsEmitterVisitor(moduleUrl);\n  const /** @type {?} */ ctx =
 EmitterVisitorContext.createRoot(exportedVars);\n  converter.visitAllStatements(stmts, ctx);\n  const /** @type
 {?} */ srcParts: string[] = [];\n  converter.importsWithPrefixes.forEach((prefix, importedModuleUrl) => {\n    //
 Note: can't write the real word for import as it screws up system.js auto detection...\n    srcParts.push(\n      `imp`
 +\n      `ort * as ${prefix} from '${this._importGenerator.fileNameToModuleName(importedModuleUrl,
 moduleUrl)}';`);\n  });\n  srcParts.push(ctx.toSource());\n  return srcParts.join(`\n`);\n  }\n}\n\nfunction
 TypeScriptEmitter_tsickle_Closure_declarations() {\n  /** @type {?}
 * \nTypeScriptEmitter.prototype._importGenerator;\n  }\n\n  \n\nclass _TsEmitterVisitor extends AbstractEmitterVisitor
implements o.TypeVisitor {\n  /**\n   * @param {?} _moduleUrl\n   * \nconstructor(private _moduleUrl: string) {\n
  super(false);\n  }\n\n  importsWithPrefixes = new Map<string, string>();\n  /**\n   * @param {?} t\n   * @param {?} ctx\n
   * @param {?=} defaultType\n   * @return {?} \n   * \nvisitType(t: o.Type, ctx: EmitterVisitorContext, defaultType:
 string = 'any') {\n    if (isPresent(t)) {\n      t.visitType(this, ctx);\n    } else {\n      ctx.print(defaultType);\n    }\n
  }\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?} \n   * \nvisitLiteralExpr(ast: o.LiteralExpr, ctx:
 EmitterVisitorContext): any {\n    const /** @type {?} */ value = ast.value;\n    if (isBlank(value) && ast.type !=
 o.NULL_TYPE) {\n      ctx.print(` ${value} as any`);\n      return null;\n    }\n    return super.visitLiteralExpr(ast,
 ctx);\n  }\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?} \n   * \nvisitLiteralArrayExpr(ast:
 o.LiteralArrayExpr, ctx: EmitterVisitorContext): any {\n    if (ast.entries.length === 0) {\n      ctx.print(``);\n    }\n
    const /** @type {?} */ result = super.visitLiteralArrayExpr(ast, ctx);\n    if (ast.entries.length === 0) {\n
      ctx.print(' as any[]');\n    }\n    return result;\n  }\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   *
 * @return {?} \n   * \nvisitExternalExpr(ast: o.ExternalExpr, ctx: EmitterVisitorContext): any {\n    this._visitIdentifier(ast.value,
 ast.typeParams, ctx);\n    return null;\n  }\n  /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?} \n
   * \nvisitDeclareVarStmt(stmt: o.DeclareVarStmt, ctx: EmitterVisitorContext): any {\n    if
 (ctx.isExportedVar(stmt.name)) {\n      ctx.print(` export `);\n    }\n    if (stmt.hasModifier(o.StmtModifier.Final)) {\n
      ctx.print(` const`);\n    } else {\n      ctx.print(` var`);\n    }\n    ctx.print(` ${stmt.name}`);\n
    this.visitType(stmt.type, ctx);\n    ctx.print(` = `);\n    stmt.value.visitExpression(this, ctx);\n    ctx.println(``);\n
    return null;\n  }\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?} \n   * \nvisitCastExpr(ast: o.CastExpr,
 ctx: EmitterVisitorContext): any {\n    ctx.print(` (<`);\n    ast.type.visitType(this, ctx);\n    ctx.print(` >`);\n
    ast.value.visitExpression(this, ctx);\n    ctx.print(`)`);\n    return null;\n  }\n  /**\n   * @param {?} stmt\n   *
 * @param {?} ctx\n   * @return {?} \n   * \nvisitDeclareClassStmt(stmt: o.ClassStmt, ctx: EmitterVisitorContext): any {\n
    ctx.pushClass(stmt);\n    if (ctx.isExportedVar(stmt.name)) {\n      ctx.print(` export `);\n    }\n    ctx.print(` class
 ${stmt.name}`);\n    if (isPresent(stmt.parent)) {\n      ctx.print(` extends `);\n      stmt.parent.visitExpression(this,
 ctx);\n    }\n    ctx.println(``);\n    ctx.incIndent();\n    stmt.fields.forEach((field) => this._visitClassField(field,
 ctx));\n    if (isPresent(stmt.constructorMethod)) {\n      this._visitClassConstructor(stmt, ctx);\n    }\n
    stmt.getters.forEach((getter) => this._visitClassGetter(getter, ctx));\n    stmt.methods.forEach((method) =>

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this._visitClassMethod(method, ctx);\n ctx.decIndent();\n ctx.println(``);\n ctx.popClass();\n return null;\n }\n/**\n * @param {?} field\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitClassField(field: o.ClassField, ctx: EmitterVisitorContext) {\n if (field.hasModifier(o.StmtModifier.Private)) {\n // comment out as a\n workaround for #10967\n ctx.print(`/*private*/`);\n }\n ctx.print(field.name);\n ctx.print(`:`);\n this.visitType(field.type, ctx);\n ctx.println(``);\n }\n/**\n * @param {?} getter\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitClassGetter(getter: o.ClassGetter, ctx: EmitterVisitorContext) {\n if\n (getter.hasModifier(o.StmtModifier.Private)) {\n ctx.print(`private `);\n }\n ctx.print(`get\n ${getter.name}()`);\n ctx.print(`:`);\n this.visitType(getter.type, ctx);\n ctx.println(``);\n ctx.incIndent();\n this.visitAllStatements(getter.body, ctx);\n ctx.decIndent();\n ctx.println(``);\n }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitClassConstructor(stmt: o.ClassStmt, ctx: EmitterVisitorContext) {\n ctx.print(`constructor`);\n this._visitParams(stmt.constructorMethod.params, ctx);\n ctx.println(``);\n ctx.incIndent();\n this.visitAllStatements(stmt.constructorMethod.body, ctx);\n ctx.decIndent();\n ctx.println(``);\n }\n/**\n * @param {?} method\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitClassMethod(method: o.ClassMethod, ctx: EmitterVisitorContext) {\n if\n (method.hasModifier(o.StmtModifier.Private)) {\n ctx.print(`private `);\n }\n ctx.print(`${method.name}`);\n this._visitParams(method.params, ctx);\n ctx.print(`:`);\n this.visitType(method.type, ctx, 'void');\n ctx.println(``);\n ctx.incIndent();\n this.visitAllStatements(method.body, ctx);\n ctx.decIndent();\n ctx.println(``);\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitFunctionExpr(ast: o.FunctionExpr, ctx: EmitterVisitorContext): any {\n ctx.print(``);\n this._visitParams(ast.params, ctx);\n ctx.print(``);\n this.visitType(ast.type, ctx, 'void');\n ctx.println(`=>`);\n ctx.incIndent();\n this.visitAllStatements(ast.statements, ctx);\n ctx.decIndent();\n ctx.println(``);\n return null;\n }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitDeclareFunctionStmt(stmt: o.DeclareFunctionStmt, ctx: EmitterVisitorContext): any {\n if (ctx.isExportedVar(stmt.name)) {\n ctx.print(`export `);\n }\n ctx.print(`function ${stmt.name}`);\n this._visitParams(stmt.params, ctx);\n ctx.print(``);\n this.visitType(stmt.type, ctx, 'void');\n ctx.println(``);\n ctx.incIndent();\n this.visitAllStatements(stmt.statements, ctx);\n ctx.decIndent();\n ctx.println(``);\n return null;\n }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitTryCatchStmt(stmt: o.TryCatchStmt, ctx: EmitterVisitorContext): any {\n ctx.println(`try`);\n ctx.incIndent();\n this.visitAllStatements(stmt.bodyStmts, ctx);\n ctx.decIndent();\n ctx.println(``)\n } catch\n (${CATCH_ERROR_VAR.name}) {\n ctx.incIndent();\n const /** @type {?} */ catchStmts =\n [ /**\n * @type {?} */\n <<o.Statement>CATCH_STACK_VAR.set(CATCH_ERROR_VAR.prop('stack')).toDeclStmt(null,\n [o.StmtModifier.Final\n ])]\n .concat(stmt.catchStmts);\n this.visitAllStatements(catchStmts, ctx);\n ctx.decIndent();\n ctx.println(``);\n return null;\n }\n/**\n * @param {?} type\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitBuiltinType(type: o.BuiltinType, ctx: EmitterVisitorContext): any {\n let /** @type {?} */ typeStr: string;\n switch (type.name) {\n case o.BuiltinTypeName.Bool:\n typeStr = 'boolean';\n break;\n case o.BuiltinTypeName.Dynamic:\n typeStr = 'any';\n break;\n case o.BuiltinTypeName.Function:\n typeStr = 'Function';\n break;\n case o.BuiltinTypeName.Number:\n typeStr = 'number';\n break;\n case o.BuiltinTypeName.Int:\n typeStr = 'number';\n break;\n case o.BuiltinTypeName.String:\n typeStr = 'string';\n break;\n default:\n throw new Error(`Unsupported builtin type ${type.name}`);\n }\n ctx.print(typeStr);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitExpressionType(ast: o.ExpressionType, ctx: EmitterVisitorContext): any {\n ast.value.visitExpression(this, ctx);\n if (isPresent(ast.typeParams) && ast.typeParams.length > 0) {\n ctx.print(`<`);\n this.visitAllObjects(type => type.visitType(this, ctx), ast.typeParams, ctx, ``,``);\n ctx.print(`>`);\n }\n return null;\n }\n/**\n * @param {?} type\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitArrayType(type: o.ArrayType, ctx: EmitterVisitorContext): any {\n this.visitType(type.of, ctx);\n ctx.print(`[]`);\n return null;\n }\n/**\n * @param {?} type\n * @param {?} ctx\n * @return {?}\n */\nprivate _visitMapType(type: o.MapType, ctx: EmitterVisitorContext): any {\n ctx.print(`{[key: string]:}`);\n this.visitType(type.valueType, ctx);\n ctx.println(``);\n return null;\n }\n/**\n * @param {?} method\n *

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@return {?} \n *\ngetBuiltinMethodName(method: o.BuiltinMethod): string {\n  let /** @type {?} */ name:
string;\n  switch (method) {\n    case o.BuiltinMethod.ConcatArray:\n      name = 'concat';\n      break;\n    case
o.BuiltinMethod.SubscribeObservable:\n      name = 'subscribe';\n      break;\n    case o.BuiltinMethod.Bind:\n
name = 'bind';\n      break;\n    default:\n      throw new Error(`Unknown builtin method: ${method}`);\n  }\n
return name;\n }\n/**\n * @param {?} params\n * @param {?} ctx\n * @return {?} \n *\nprivate
_visitParams(params: o.FnParam[], ctx: EmitterVisitorContext): void {\n  this.visitAllObjects(param => {\n
ctx.print(param.name);\n  ctx.print(':');\n  this.visitType(param.type, ctx);\n  }, params, ctx, ',');\n }\n/**\n *
@param {?} value\n * @param {?} typeParams\n * @param {?} ctx\n * @return {?} \n *\nprivate
_visitIdentifier(\n  value: CompileIdentifierMetadata, typeParams: o.Type[], ctx: EmitterVisitorContext): void {\n
const /** @type {?} */ name = identifierName(value);\n  const /** @type {?} */ moduleUrl =
identifierModuleUrl(value);\n  if (isBlank(name)) {\n    throw new Error(`Internal error: unknown identifier
${value}`);\n  }\n  if (isPresent(moduleUrl) && moduleUrl != this._moduleUrl) {\n    let /** @type {?} */
prefix = this.importsWithPrefixes.get(moduleUrl);\n    if (isBlank(prefix)) {\n      prefix =
`import${this.importsWithPrefixes.size}`;\n      this.importsWithPrefixes.set(moduleUrl, prefix);\n    }\n
ctx.print(`${prefix}.`);\n  }\n  if (value.reference && value.reference.members &&
value.reference.members.length) {\n    ctx.print(value.reference.name);\n    ctx.print('.');\n
ctx.print(value.reference.members.join('.'));\n  } else {\n    ctx.print(name);\n  }\n  if (isPresent(typeParams)
&& typeParams.length > 0) {\n    ctx.print('<');\n    this.visitAllObjects(type => type.visitType(this, ctx),
typeParams, ctx, ',');\n    ctx.print('>');\n  }\n }\n}\n\nfunction _TsEmitterVisitor_tsickle_Closure_declarations(
{\n /** @type {?} */ *\n_TsEmitterVisitor.prototype.importsWithPrefixes;\n /** @type {?}
*\n_TsEmitterVisitor.prototype._moduleUrl;\n }\n\n\ninterface DecoratorInvocation {\n type: Function;\n args?:
any[];\n }\n"}

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/ts\_emitter.js.map

No license file was found, but licenses were detected in source scan.

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```

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r.AnimationStyles = r.AnimationStyles;\nexport const /** @type {?} */ ANY_STATE = r.ANY_STATE;\nexport
const /** @type {?} */ DEFAULT_STATE = r.DEFAULT_STATE;\nexport const /** @type {?} */
EMPTY_STATE = r.EMPTY_STATE;\nexport const /** @type {?} */ FILL_STYLE_FLAG =
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r.ComponentStillLoadingError;\nexport const /** @type {?} */ AnimationTransition: typeof r.AnimationTransition
= r.AnimationTransition;\nexport type SetterFn = typeof r._SetterFn;\nexport type GetterFn = typeof
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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/private\_import\_core.js.map

No license file was found, but licenses were detected in source scan.

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GAAP;QACI,IAAM,gBAAgB,CAAC,MAAM,GAAY,EAAE,CAAC;QACzD,GAAG,CAAC,CAAC,IAAI,gBAA
gB,CAAC,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,IAAI,CAAC,aAAa,CAAC,MAAM,EAAE,CAAC,EAAE,E
AAE,CAAC;YACpE,MAAM,CAAC,IAAI,CAAC,aAAa,CAAC,CAAC,CAAC,GAAG,IAAI,CAAC,cAAc,
CAAC,CAAC,CAAC,CAAC;QACzD,CAAC;QACD,MAAM,CAAC,MAAM,CAAC;IACHb,CAAC;IACH;:::OAI
G;IACH,6CAAI,GAajB,UAAkB,GAAM,EAAE,GAA0B;QAC7D,IAAM,gBAAgB,CAAC,KAAK,GAAG,GA
AG,CAAC,KAAK,CAAC,SAAS,CAAC;QACnD,IAAI,gBAAgB,CAAC,EAAE,GAAG,IAAI,CAAC,cAAc,CAAC
,OAAO,CAAC,KAAK,CAAC,CAAC;QAC7D,EAAE,CAAC,CAAC,EAAE,KAAK,CAAC,CAAC,CAAC,CAAC,
CAAC;YACd,EAAE,GAAG,IAAI,CAAC,cAAc,CAAC,MAAM,CAAC;YACb,IAAI,CAAC,cAAc,CAAC,IAAI,
CAAC,KAAK,CAAC,CAAC;YACb,IAAM,gBAAgB,CAAC,MAAI,GAAG,cAAc,CAAC,GAAG,CAAC,KAAK,
CAAC,IAAI,KAAK,CAAC;YACjE,IAAI,CAAC,aAAa,CAAC,IAAI,CAAC,SAAO,MAAI,GAAG,EAAI,CAAC,C
AAC;QAC9C,CAAC;QACD,GAAG,CAAC,KAAK,CAAC,IAAI,CAAC,aAAa,CAAC,EAAE,CAAC,CAAC,CAA

```

```

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A8BvD;AAED;IACC,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,aAAa,CAAC;IACzC,gBAAgB;IACjB,iBAA
iB,CAAC,SAAS,CAAC,cAAc,CAAC;AAC3C,CAAC","sourcesContent":["/*\n * @license\n * Copyright Google
Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n *\n\nimport {identifierName} from
'./compile_metadata';\nimport {isPresent} from './facade/lang';\n\nimport {EmitterVisitorContext} from
'./abstract_emitter';\nimport {AbstractJsEmitterVisitor} from './abstract_js_emitter';\nimport * as o from
'./output_ast';\n\n/**\n * @param {?} sourceUrl\n * @param {?} expr\n * @param {?} declarations\n * @param {?}
vars\n * @return {?} */\n *\nfunction evalExpression(\n  sourceUrl: string, expr: string, declarations: string, vars:
{[key: string]: any}): any {\n  const /** @type {?} */ fnBody = `${declarations}\n\nreturn ${expr}\n\n`/\n\n#
sourceURL=${sourceUrl}`;\n  const /** @type {?} */ fnArgNames: string[] = [];\n  const /** @type {?} */
fnArgValues: any[] = [];\n  for (const /** @type {?} */ argName in vars) {\n    fnArgNames.push(argName);\n
  }\n  fnArgValues.push(vars[argName]);\n  }\n  return new
Function(...fnArgNames.concat(fnBody))(...fnArgValues);\n}\n\n/**\n * @param {?} sourceUrl\n * @param {?}
statements\n * @param {?} resultVar\n * @return {?} */\n *\nfunction jitStatements(\n  sourceUrl: string,
statements: o.Statement[], resultVar: string): any {\n  const /** @type {?} */ converter = new JitEmitterVisitor();\n
const /** @type {?} */ ctx = EmitterVisitorContext.createRoot([resultVar]);\n
converter.visitAllStatements(statements, ctx);\n  return evalExpression(sourceUrl, resultVar, ctx.toSource(),
converter.getArgs());\n}\n\n\nclass JitEmitterVisitor extends AbstractJsEmitterVisitor {\n  private _evalArgNames:
string[] = [];\n  private _evalArgValues: any[] = [];\n\n  /**\n   * @return {?} */\n   *\ngetArgs(): {[key: string]: any} {\n
const /** @type {?} */ result: {[key: string]: any} = {};\n  for (let /** @type {?} */ i = 0; i <
this._evalArgNames.length; i++) {\n    result[this._evalArgNames[i]] = this._evalArgValues[i];\n  }\n  return
result;\n}\n\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?} */\n   *\nvisitExternalExpr(ast:
o.ExternalExpr, ctx: EmitterVisitorContext): any {\n  const /** @type {?} */ value = ast.value.reference;\n  let
/** @type {?} */ id = this._evalArgValues.indexOf(value);\n  if (id === -1) {\n    id =
this._evalArgValues.length;\n    this._evalArgValues.push(value);\n    const /** @type {?} */ name =
identifierName(ast.value) || 'val';\n    this._evalArgNames.push(`jit_${name}${id}`);\n  }\n  ctx.print(this._evalArgNames[id]);\n  return null;\n}\n}\n\n\nfunction
JitEmitterVisitor_tsickle_Closure_declarations() {\n  /** @type {?} */
*\n  *\nJitEmitterVisitor.prototype._evalArgNames;\n  /** @type {?} */
*\n  *\nJitEmitterVisitor.prototype._evalArgValues;\n}\n\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?:
any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/output_jit.js.map
No license file was found, but licenses were detected in source scan.

```

```

{"version":3,"file":"index.js","sourceRoot":"","sources":["../../modules/@angular/compiler/index.ts"],"names":[],"
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U,EAAC,mBAAmB,EAAC,yBAAYB,EAAC,YAAY,EAAC,WAAW,EAAC,eAAe,EAAC,YAAY,EAAC,mBAAm
B,EAaOb,gBAAgB,QAAO,oCAAoC,CAAC;AACIU,SAAQ,mBAAmB,QAAO,uCAAuC,CAAC;AACIE,SAAQ,c
AAc,EAAE,WAAW,QAAO,cAAc,CAAC;AACzD,SAAQ,6BAA6B,EAAC,6BAA6B,EAAC,wCAAwC,EAAC,uC
AAuC,EAAC,wBAAwB,EAAC,yCAAYC,EAAC,6BAA6B,EAAC,+BAA+B,EAAC,iCAAIc,EAAC,gCAAgC,EA
AC,6BAA6B,EAAC,cAAc,EAAC,mBAAmB,EAA2B,kBAaKB,EAA+F,SAAS,EAAC,cAAc,EAA+D,yBAAYB,E
AAwB,uBAAuB,EAAyB,wBAAwB,EAAC,uBAAuB,EAAoB,mBAAmB,EAAwB,uBAAuB,EAAC,iCAAiC,EAA
C,YAAY,QAAO,wBAAwB,CAAC;AACI7B,SAAQ,iBAAiB,QAAO,4BAA4B,CAAC;AAC7D,SAAQ,WAAW,EA
AwC,gBAAgB,EAAC,2BAA2B,EAAC,qBAAqB,QAAO,oBAAoB,CAAC;AAEzJ,SAAQ,eAAe,QAAO,4BAA4B,

```

```

CAAC;AAC3D,SAAQ,sCAAsC,QAAO,0CAA0C,CAAC;AACgG,SAAQ,YAAy,EAAC,iBAAiB,QAAO,yBAAy
B,CAAC;AACvE,SAAQ,oBAAoB,EAA0B,oBAAoB,QAAO,kCAAkC,CAAC;AACpH,SAA+B,kBAAkB,QAAO,
4BAA4B,CAAC;AACrF,SAAgB,eAAe,QAAO,wBAAwB,CAAC;AAC/D,SAAQ,WAAW,QAAO,oBAAoB,CAA
C;AAC/C,SAAQ,kBAAkB,EAAC,kBAAkB,EAAC,mBAAmB,QAAO,4BAA4B,CAAC;AACrG,SAAQ,qCAAqC,
EAAC,+BAA+B,EAAC,4BAA4B,EAAC,WAAW,EAAC,YAAy,QAAO,oBAAoB,CAAC;AAC/J,SAAQ,cAAc,Q
AAO,uBAAuB,CAAC;AACrD,SAAQ,iBAAiB,QAAO,0BAA0B,CAAC;AAC3D,SAAQ,YAAy,QAAO,qBAAqB,
CAAC;AACjD,SAAQ,gBAAgB,QAAO,0BAA0B,CAAC;AAC1D,SAAQ,4BAA4B,EAAE,mBAAmB,QAAO,sCA
AsC,CAAC;AACvG,SAAQ,qBAAqB,QAAO,sCAAsC,CAAC;AAC3E,SAAQ,SAAS,EAAe,cAAc,EAAC,aAAa,E
AAy,KAak,EAAC,GAAG,EAAC,GAAG,QAAO,kBAAkB,CAAC;AAC/G,SAAsC,mBAAmB,QAAO,4BAA4B,
CAAC;AAC7F,SAAQ,SAAS,EAAC,KAak,EAAC,KAak,EAAC,GAAG,EAAC,YAAy,EAAC,OAAO,QAAO,+
BAA+B,CAAC;AAC7F,SAAQ,kBAAkB,EAAC,0BAA0B,EAAC,MAAM,EAAC,SAAS,QAAO,gCAAgC,CAAC;
AAC9G,SAAuB,qBAAqB,EAAC,uBAAuB,EAAC,kBAAkB,QAAO,yBAAyB,CAAC;AACxH,SAAQ,eAAe,EAA
C,SAAS,EAAC,UAAU,QAAO,6BAA6B,CAAC;AAEjF,SAAQ,gBAAgB,QAAO,0BAA0B,CAAC;AAC1D,SAAQ
,wBAAwB,QAAO,kCAAkC,CAAC;AAC1E,SAAQ,cAAc,QAAO,wBAAwB,CAAC;AACiD,SAAQ,0BAA0B,EA
AC,iBAAiB,QAAO,yBAAyB,CAAC;AACrF,SAAQ,aAAa,EAAC,eAAe,EAAC,eAAe,EAAC,eAAe,EAAC,UAAU
,QAAO,kBAAkB,CAAC;AAC1G,SAAQ,wBAAwB,QAAO,0CAA0C,CAAC;AACIF,SAAQ,WAAW,EAAC,eAAe
,EAAC,mBAAmB,EAAC,eAAe,QAAO,gBAAgB,CAAC;AAC/F,SAAQ,uBAAuB,EAAC,mBAAmB,EAAC,kBA
AkB,EAAC,aAAa,QAAO,sBAAsB,CAAC;AACIH,SAAQ,kBAAkB,EAAC,mBAAmB,EAAC,cAAc,EAAC,YAA
Y,EAAC,wBAAwB,EAAC,uBAAuB,QAAO,uCAAuC,CAAC;AAC1K,SAAQ,YAAy,QAAO,mCAAmC,CAAC;
AAC/D,SAAQ,eAAe,QAAO,kCAAkC,CAAC;AACjE,SAAQ,WAAW,QAAO,YAAy,CAAC", "sourcesContent":["
/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n *\n * @module\n
* @description\n * Entry point for all APIs of the compiler package.\n *\n * <div class="callout is-critical">\n *
<header>Unstable APIs</header>\n * <p>\n * All compiler apis are currently considered experimental and
private!\n * </p>\n * <p>\n * We expect the APIs in this package to keep on changing. Do not rely on them.\n
* </p>\n * </div>\n */\nexport { VERSION } from './src/version';\nexport
{ TemplateAst, TextAst, BoundTextAst, AttrAst, BoundElementPropertyAst, BoundEventAst, ReferenceAst, VariableAst,
ElementAst, EmbeddedTemplateAst, BoundDirectivePropertyAst, DirectiveAst, ProviderAst, ProviderAstType, NgCo
ntentAst, PropertyBindingType, TemplateAstVisitor, templateVisitAll } from
'./src/template_parser/template_ast';\nexport { TEMPLATE_TRANSFORMS } from
'./src/template_parser/template_parser';\nexport { CompilerConfig, RenderTypes } from './src/config';\nexport
{ CompileAnimationEntryMetadata, CompileAnimationStateMetadata, CompileAnimationStateDeclarationMetadata,
CompileAnimationStateTransitionMetadata, CompileAnimationMetadata, CompileAnimationKeyframesSequenceMe
tadata, CompileAnimationStyleMetadata, CompileAnimationAnimateMetadata, CompileAnimationWithStepsMetadat
a, CompileAnimationSequenceMetadata, CompileAnimationGroupMetadata, identifierName, identifierModuleUrl, Co
mpileIdentifierMetadata, CompileSummaryKind, CompileTypeSummary, CompileDiDependencyMetadata, CompileP
roviderMetadata, CompileFactoryMetadata, tokenName, tokenReference, CompileTokenMetadata, CompileTypeMetad
ata, CompileQueryMetadata, CompileStylesheetMetadata, CompileTemplateSummary, CompileTemplateMetadata, Co
mpileDirectiveSummary, CompileDirectiveMetadata, createHostComponentMeta, CompilePipeSummary, CompilePip
eMetadata, CompileNgModuleSummary, CompileNgModuleMetadata, TransitiveCompileNgModuleMetadata, Provid
erMeta } from './src/compile_metadata';\nexport { createAotCompiler } from './src/aot/compiler_factory';\nexport
{ AotCompiler, NgAnalyzedModules, NgAnalyzeModulesHost, analyzeNgModules, analyzeAndValidateNgModules, e
xtractProgramSymbols } from './src/aot/compiler';\nexport { AotCompilerHost } from
'./src/aot/compiler_host';\nexport { StaticReflector } from './src/aot/static_reflector';\nexport
{ StaticAndDynamicReflectionCapabilities } from './src/aot/static_reflection_capabilities';\nexport
{ StaticSymbol, StaticSymbolCache } from './src/aot/static_symbol';\nexport
{ ResolvedStaticSymbol, StaticSymbolResolverHost, StaticSymbolResolver } from
'./src/aot/static_symbol_resolver';\nexport { AotSummaryResolverHost, AotSummaryResolver } from

```

```

./src/aot/summary_resolver';\nextport {Summary,SummaryResolver} from './src/summary_resolver';\nextport
{JitCompiler} from './src/jit/compiler';\nextport
{COMPILER_PROVIDERS,JitCompilerFactory,platformCoreDynamic} from './src/jit/compiler_factory';\nextport
{createUrlResolverWithoutPackagePrefix,createOfflineCompileUrlResolver,DEFAULT_PACKAGE_URL_PROVI
DER,UrlResolver,getUrlScheme} from './src/url_resolver';\nextport {ResourceLoader} from
./src/resource_loader';\nextport {DirectiveResolver} from './src/directive_resolver';\nextport {PipeResolver} from
./src/pipe_resolver';\nextport {NgModuleResolver} from './src/ng_module_resolver';\nextport
{DEFAULT_INTERPOLATION_CONFIG, InterpolationConfig} from
./src/ml_parser/interpolation_config';\nextport {ElementSchemaRegistry} from
./src/schema/element_schema_registry';\nextport
{Extractor,ExtractorHost,I18NHtmlParser,MessageBundle,Serializer,Xliff,Xmb,Xtb} from
./src/i18n/index';\nextport {PrenormalizedTemplateMetadata,DirectiveNormalizer} from
./src/directive_normalizer';\nextport {TokenType,Lexer,Token,EOF,isIdentifier,isQuote} from
./src/expression_parser/lexer';\nextport {SplitInterpolation,TemplateBindingParseResult,Parser,_ParseAST} from
./src/expression_parser/parser';\nextport
{ErrorCollector,ERROR_COLLECTOR_TOKEN,CompileMetadataResolver,componentModuleUrl} from
./src/metadata_resolver';\nextport {ParseTreeResult,TreeError,HtmlParser} from
./src/ml_parser/html_parser';\nextport {} from './src/ml_parser/interpolation_config';\nextport {NgModuleCompiler}
from './src/ng_module_compiler';\nextport {DirectiveWrapperCompiler} from
./src/directive_wrapper_compiler';\nextport {ImportResolver} from './src/output/path_util';\nextport
{debugOutputAstAsTypeScript,TypeScriptEmitter} from './src/output/ts_emitter';\nextport
{ParseLocation,ParseSourceFile,ParseSourceSpan,ParseErrorLevel,ParseError} from './src/parse_util';\nextport
{DomElementSchemaRegistry} from './src/schema/dom_element_schema_registry';\nextport
{CssSelector,SelectorMatcher,SelectorListContext,SelectorContext} from './src/selector';\nextport
{StylesCompileDependency,StylesCompileResult,CompiledStylesheet,StyleCompiler} from
./src/style_compiler';\nextport
{TemplateParseError,TemplateParseResult,TemplateParser,splitClasses,createElementCssSelector,removeSummary
Duplicates} from './src/template_parser/template_parser';\nextport {ViewCompiler} from
./src/view_compiler/view_compiler';\nextport {AnimationParser} from './src/animation/animation_parser';\nextport
{SyntaxError} from './src/util';\n// This file only reexports content of the `src` folder. Keep it that way.\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/index.js.map

No license file was found, but licenses were detected in source scan.

```

{"version":3,"file":"serializer.js","sourceRoot":"","sources":["../../../../modules/@angular/compiler/src/i18n/seria
lizers/serializer.ts"],"names":[],"mappings":"AAAA;:::;GAMG","sourcesContent":["/*\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport * as i18n from
./i18n_ast';\n\nexport interface Serializer {\n write(messages: i18n.Message[]): string;\n load(content: string,
url: string): {[msgId: string]: i18n.Node[]};\n\n digest(message: i18n.Message): string;\n}\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/serializer.js.map

No license file was found, but licenses were detected in source scan.



```

'./ml_parser/tags';\n\nconst /** @type {?} */ NG_CONTENT_SELECT_ATTR = 'select';\nconst /** @type {?} */
NG_CONTENT_ELEMENT = 'ng-content';\nconst /** @type {?} */ LINK_ELEMENT = 'link';\nconst /** @type
{?} */ LINK_STYLE_REL_ATTR = 'rel';\nconst /** @type {?} */ LINK_STYLE_HREF_ATTR = 'href';\nconst
/** @type {?} */ LINK_STYLE_REL_VALUE = 'stylesheet';\nconst /** @type {?} */ STYLE_ELEMENT =
'style';\nconst /** @type {?} */ SCRIPT_ELEMENT = 'script';\nconst /** @type {?} */
NG_NON_BINDABLE_ATTR = 'ngNonBindable';\nconst /** @type {?} */ NG_PROJECT_AS =
'ngProjectAs';\n/**\n * @param {?} ast\n * @return {?} \n * \nexport function prepareElement(ast: html.Element):
PreparedElement {\n let /** @type {?} */ selectAttr: string = null;\n let /** @type {?} */ hrefAttr: string = null;\n
let /** @type {?} */ relAttr: string = null;\n let /** @type {?} */ nonBindable = false;\n let /** @type {?} */
projectAs: string = null;\n ast.attrs.forEach(attr => {\n const /** @type {?} */ lcAttrName =
attr.name.toLowerCase();\n if (lcAttrName == NG_CONTENT_SELECT_ATTR) {\n selectAttr = attr.value;\n
} else if (lcAttrName == LINK_STYLE_HREF_ATTR) {\n hrefAttr = attr.value;\n } else if (lcAttrName ==
LINK_STYLE_REL_ATTR) {\n relAttr = attr.value;\n } else if (attr.name == NG_NON_BINDABLE_ATTR)
{\n nonBindable = true;\n } else if (attr.name == NG_PROJECT_AS) {\n if (attr.value.length > 0) {\n
projectAs = attr.value;\n } \n } \n });\n selectAttr = normalizeNgContentSelect(selectAttr);\n const /** @type
{?} */ nodeName = ast.name.toLowerCase();\n let /** @type {?} */ type = PreparedElementType.OTHER;\n if
(splitNsName(nodeName)[1] == NG_CONTENT_ELEMENT) {\n type =
PreparedElementType.NG_CONTENT;\n } else if (nodeName == STYLE_ELEMENT) {\n type =
PreparedElementType.STYLE;\n } else if (nodeName == SCRIPT_ELEMENT) {\n type =
PreparedElementType.SCRIPT;\n } else if (nodeName == LINK_ELEMENT && relAttr ==
LINK_STYLE_REL_VALUE) {\n type = PreparedElementType.STYLESHEET;\n } \n return new
PreparedElement(type, selectAttr, hrefAttr, nonBindable, projectAs);\n } \nexport type PreparedElementType =
number;\nexport let PreparedElementType: any = {};\nPreparedElementType.NG_CONTENT =
0;\nPreparedElementType.STYLE = 1;\nPreparedElementType.STYLESHEET =
2;\nPreparedElementType.SCRIPT = 3;\nPreparedElementType.OTHER =
4;\nPreparedElementType[PreparedElementType.NG_CONTENT] =
'NG_CONTENT';\nPreparedElementType[PreparedElementType.STYLE] =
'STYLE';\nPreparedElementType[PreparedElementType.STYLESHEET] =
'STYLESHEET';\nPreparedElementType[PreparedElementType.SCRIPT] =
'SCRIPT';\nPreparedElementType[PreparedElementType.OTHER] = 'OTHER';\n\n\nexport class
PreparedElement {\n/**\n * @param {?} type\n * @param {?} selectAttr\n * @param {?} hrefAttr\n * @param
{?} nonBindable\n * @param {?} projectAs\n * \nconstructor(\npublic type: PreparedElementType,\npublic
selectAttr: string,\npublic hrefAttr: string,\npublic nonBindable: boolean,\npublic projectAs: string)
{\n}\n\nfunction PreparedElement_tsickle_Closure_declarations() {\n /** @type {?} */
*\nPreparedElement.prototype.type;\n /** @type {?} */ *\nPreparedElement.prototype.selectAttr;\n /** @type {?} */
*\nPreparedElement.prototype.hrefAttr;\n /** @type {?} */ *\nPreparedElement.prototype.nonBindable;\n /**
@type {?} */ *\nPreparedElement.prototype.projectAs;\n}\n\n/**\n * @param {?} selectAttr\n * @return {?} \n
*\nfunction normalizeNgContentSelect(selectAttr: string): string {\n if (selectAttr === null || selectAttr.length ===
0) {\n return '*';\n } \n return selectAttr;\n } \n\ninterface DecoratorInvocation {\n type: Function;\n args?:
any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/template\_parser/template\_preparer.js.map

No license file was found, but licenses were detected in source scan.

```

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'HEADING_LEVEL3',\n 'H4': 'HEADING_LEVEL4',\n 'H5': 'HEADING_LEVEL5',\n 'H6':
'HEADING_LEVEL6',\n 'HR': 'HORIZONTAL_RULE',\n 'I': 'ITALIC_TEXT',\n 'LI': 'LIST_ITEM',\n 'LINK':
'MEDIA_LINK',\n 'OL': 'ORDERED_LIST',\n 'P': 'PARAGRAPH',\n 'Q': 'QUOTATION',\n 'S':
'STRIKETHROUGH_TEXT',\n 'SMALL': 'SMALL_TEXT',\n 'SUB': 'SUBSCRIPT',\n 'SUP': 'SUPERSCRIP',\n
'TBODY': 'TABLE_BODY',\n 'TD': 'TABLE_CELL',\n 'TFOOT': 'TABLE_FOOTER',\n 'TH':
'TABLE_HEADER_CELL',\n 'THEAD': 'TABLE_HEADER',\n 'TR': 'TABLE_ROW',\n 'TT':
'MONOSPACED_TEXT',\n 'U': 'UNDERLINED_TEXT',\n 'UL': 'UNORDERED_LIST',\n};\n/**\n * Creates
unique names for placeholder with different content.\n * *\n * Returns the same placeholder name when the
content is identical.\n * *\n */\nexport class PlaceholderRegistry {\nprivate _placeholderNameCounts: {[k: string]:
number} = {};\nprivate _signatureToName: {[k: string]: string} = {};\n/**\n * @param {?} tag\n * @param {?}
attrs\n * @param {?} isVoid\n * @return {?}\n */\ngetStartTagPlaceholderName(tag: string, attrs: {[k: string]:
string}, isVoid: boolean): string {\n const /** @type {?} */ signature = this._hashTag(tag, attrs, isVoid);\n if
(this._signatureToName[signature]) {\n return this._signatureToName[signature];\n }\n\n const /** @type
{?} */ upperTag = tag.toUpperCase();\n const /** @type {?} */ baseName =
TAG_TO_PLACEHOLDER_NAMES[upperTag] || `TAG_${upperTag}`;\n const /** @type {?} */ name =
this._generateUniqueName(isVoid ? baseName : `START_${baseName}`);\n\n this._signatureToName[signature]
= name;\n\n return name;\n }\n/**\n * @param {?} tag\n * @return {?}\n */\ngetCloseTagPlaceholderName(tag:
string): string {\n const /** @type {?} */ signature = this._hashClosingTag(tag);\n if
(this._signatureToName[signature]) {\n return this._signatureToName[signature];\n }\n\n const /** @type
{?} */ upperTag = tag.toUpperCase();\n const /** @type {?} */ baseName =
TAG_TO_PLACEHOLDER_NAMES[upperTag] || `TAG_${upperTag}`;\n const /** @type {?} */ name =
this._generateUniqueName(`CLOSE_${baseName}`);\n\n this._signatureToName[signature] = name;\n\n return
name;\n }\n/**\n * @param {?} name\n * @param {?} content\n * @return {?}\n */\ngetPlaceholderName(name:
string, content: string): string {\n const /** @type {?} */ upperName = name.toUpperCase();\n const /** @type
{?} */ signature = `PH: ${upperName}=${content}`;\n if (this._signatureToName[signature]) {\n return
this._signatureToName[signature];\n }\n\n const /** @type {?} */ uniqueName =
this._generateUniqueName(upperName);\n this._signatureToName[signature] = uniqueName;\n\n return
uniqueName;\n }\n/**\n * @param {?} name\n * @return {?}\n */\ngetUniquePlaceholder(name: string): string {\n
return this._generateUniqueName(name.toUpperCase());\n }\n/**\n * @param {?} tag\n * @param {?} attrs\n *
@param {?} isVoid\n * @return {?}\n */\nprivate _hashTag(tag: string, attrs: {[k: string]: string}, isVoid: boolean):
string {\n const /** @type {?} */ start = `<${tag}`;\n const /** @type {?} */ strAttrs =
Object.keys(attrs).sort().map((name) => ` ${name}=${attrs[name]}`).join("");\n const /** @type {?} */ end =
isVoid ? '>' : `>/${tag}>`;\n\n return start + strAttrs + end;\n }\n/**\n * @param {?} tag\n * @return {?}\n
*/\nprivate _hashClosingTag(tag: string): string { return this._hashTag(`/${tag}`, {}, false); }\n/**\n * @param {?}
base\n * @return {?}\n */\nprivate _generateUniqueName(base: string): string {\n const /** @type {?} */ next =
this._placeholderNameCounts[base];\n this._placeholderNameCounts[base] = next ? next + 1 : 1;\n return next
? `${base}_${next}` : base;\n }\n\nfunction PlaceholderRegistry_tsickle_Closure_declarations() {\n /** @type
{?} */\nPlaceholderRegistry.prototype._placeholderNameCounts;\n /** @type {?} */\nPlaceholderRegistry.prototype._signatureToName;\n\n\ninterface DecoratorInvocation {\n type: Function;\n
args?: any[];\n}\n"}

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/placeholder.js.map

No license file was found, but licenses were detected in source scan.

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W,CAAC;AACjD,CAAC","sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nimport {CompileIdentifierMetadata} from './compile_metadata';\n\nexport class
ViewClassDependency {\n/**\n * @param {?} comp\n * @param {?} name\n * @param {?} placeholder\n
*\nconstructor(\npublic comp: CompileIdentifierMetadata,\npublic name: string,\npublic placeholder:
CompileIdentifierMetadata) {\n}\n\nfunction ViewClassDependency_tsickle_Closure_declarations() {\n/**
 * @type {?} *\nViewClassDependency.prototype.comp;\n/** @type {?}
 *\nViewClassDependency.prototype.name;\n/** @type {?}
 *\nViewClassDependency.prototype.placeholder;\n}\n\nexport class ComponentFactoryDependency {\n/**\n *
@param {?} comp\n * @param {?} placeholder\n *\nconstructor(\npublic comp:
CompileIdentifierMetadata,\npublic placeholder: CompileIdentifierMetadata) {\n}\n\nfunction
ComponentFactoryDependency_tsickle_Closure_declarations() {\n/** @type {?}
 *\nComponentFactoryDependency.prototype.comp;\n/** @type {?}
 *\nComponentFactoryDependency.prototype.placeholder;\n}\n\nexport class DirectiveWrapperDependency
{\n/**\n * @param {?} dir\n * @param {?} name\n * @param {?} placeholder\n *\nconstructor(\npublic dir:
CompileIdentifierMetadata,\npublic name: string,\npublic placeholder: CompileIdentifierMetadata)
{\n}\n\nfunction DirectiveWrapperDependency_tsickle_Closure_declarations() {\n/** @type {?}
 *\nDirectiveWrapperDependency.prototype.dir;\n/** @type {?}
 *\nDirectiveWrapperDependency.prototype.name;\n/** @type {?}
 *\nDirectiveWrapperDependency.prototype.placeholder;\n}\n\ninterface DecoratorInvocation {\n type:
Function;\n args?: any[];\n}\n"}]

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Found in path(s):

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/view_compiler/deps.js.map
No license file was found, but licenses were detected in source scan.

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sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code
is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*\n\nimport { COMPILER_OPTIONS, Compiler, CompilerFactory, CompilerOptions, Inject, Optional,
PLATFORM_INITIALIZER, PlatformRef, Provider, ReflectiveInjector, TRANSLATIONS,
TRANSLATIONS_FORMAT, Type, ViewEncapsulation, createPlatformFactory, isDevMode, platformCore} from
'@angular/core';\n\nimport { AnimationParser } from './animation/animation_parser';\nimport { CompilerConfig }
from './config';\nimport { DirectiveNormalizer } from './directive_normalizer';\nimport { DirectiveResolver } from
'./directive_resolver';\nimport { DirectiveWrapperCompiler } from './directive_wrapper_compiler';\nimport { Lexer }
from './expression_parser/lexer';\nimport { Parser } from './expression_parser/parser';\nimport * as i18n from
'./i18n/index';\nimport { CompilerInjectable } from './injectable';\nimport { CompileMetadataResolver } from
'./metadata_resolver';\nimport { HtmlParser } from './ml_parser/html_parser';\nimport { NgModuleCompiler } from
'./ng_module_compiler';\nimport { NgModuleResolver } from './ng_module_resolver';\nimport { PipeResolver } from
'./pipe_resolver';\nimport { Console, ReflectionCapabilities, Reflector, ReflectorReader, reflector } from
'./private_import_core';\nimport { ResourceLoader } from './resource_loader';\nimport
{ DomElementSchemaRegistry } from './schema/dom_element_schema_registry';\nimport
{ ElementSchemaRegistry } from './schema/element_schema_registry';\nimport { StyleCompiler } from
'./style_compiler';\nimport { SummaryResolver } from './summary_resolver';\nimport { TemplateParser } from
'./template_parser/template_parser';\nimport { DEFAULT_PACKAGE_URL_PROVIDER, UrlResolver } from
'./url_resolver';\nimport { ViewCompiler } from './view_compiler/view_compiler';\n\nimport { JitCompiler } from
'./compiler';\n\nconst /** @type {?} */ _NO_RESOURCE_LOADER: ResourceLoader = {\n/**\n * @param {?}
url\n * @return {?} */\n * ^nget(url: string): Promise<string>{\n  throw new Error(\n    `No ResourceLoader
implementation has been provided. Can't read the url \"${url}\"`);\n};\n\n/**\n * A set of providers that provide
`JitCompiler` and its dependencies to use for\n * template compilation.\n * ^nexport const /** @type {?} */
COMPILER_PROVIDERS: Array<any|Type<any>|{[k: string]: any}|any[]> = [\n { provide: Reflector, useValue:
reflector},\n { provide: ReflectorReader, useExisting: Reflector},\n { provide: ResourceLoader, useValue:
_NO_RESOURCE_LOADER},\n SummaryResolver,\n Console,\n Lexer,\n Parser,\n HtmlParser,\n {\n
provide: i18n.I18NHtmlParser,\n  useFactory: (parser: HtmlParser, translations: string, format: string) =>\n
  new i18n.I18NHtmlParser(parser, translations, format),\n  deps: [\n    HtmlParser,\n    [new Optional(), new
Inject(TRANSLATIONS)],\n    [new Optional(), new Inject(TRANSLATIONS_FORMAT)],\n    ]\n },\n
TemplateParser,\n DirectiveNormalizer,\n CompileMetadataResolver,\n
DEFAULT_PACKAGE_URL_PROVIDER,\n StyleCompiler,\n ViewCompiler,\n NgModuleCompiler,\n
DirectiveWrapperCompiler,\n { provide: CompilerConfig, useValue: new CompilerConfig(),\n JitCompiler,\n
{ provide: Compiler, useExisting: JitCompiler},\n DomElementSchemaRegistry,\n { provide:
ElementSchemaRegistry, useExisting: DomElementSchemaRegistry },\n UrlResolver,\n DirectiveResolver,\n
PipeResolver,\n NgModuleResolver,\n AnimationParser\n];\n\n\n@CompilerInjectable()\nexport class
JitCompilerFactory implements CompilerFactory {\nprivate _defaultOptions: CompilerOptions[];\n/**\n * @param
{?} defaultOptions\n * ^nconstructor( defaultOptions: CompilerOptions[]) {\n  this._defaultOptions =
[<CompilerOptions>{\n    useDebug: isDevMode(),\n    useJit: true,\n    defaultEncapsulation: ViewEncapsulation.Emulated\n    }].concat(defaultOptions);\n  }\n/**\n *
@param {=?} options\n * @return {?} */\n * ^ncreateCompiler(options: CompilerOptions[] = []): Compiler {\n  const
/** @type {?} */ mergedOptions = _mergeOptions(this._defaultOptions.concat(options));\n  const /** @type {?}
*/ injector = ReflectiveInjector.resolveAndCreate([\n    COMPILER_PROVIDERS, {\n    provide:
CompilerConfig,\n    useFactory: () => {\n      return new CompilerConfig({\n        // let explicit values from
the compiler options overwrite options\n        // from the app providers. E.g. important for the testing platform.\n
      genDebugInfo: mergedOptions.useDebug,\n        // let explicit values from the compiler options overwrite
options\n        // from the app providers\n        useJit: mergedOptions.useJit,\n        // let explicit values from

```

```

the compiler options overwrite options\n      // from the app providers\n      defaultEncapsulation:
mergedOptions.defaultEncapsulation,\n      logBindingUpdate: mergedOptions.useDebug\n    });\n  },\n  deps: []\n  },\n  mergedOptions.providers\n]);\n return injector.get(Compiler);\n }\n\n/** @nocollapse
*\nstatic ctorParameters: () => ({type: any, decorators?: DecoratorInvocation[]|null})[] = () => [\n{ type: Array,
decorators: [{ type: Inject, args: [COMPILER_OPTIONS, ], }, ],\n};\n\n\nfunction
JitCompilerFactory_tsickle_Closure_declarations() {\n /**\n * @nocollapse\n * @type {?}\n
*\nJitCompilerFactory.ctorParameters;\n /** @type {?}
*\nJitCompilerFactory.prototype._defaultOptions;\n }\n\n/**\n * @return {?}\n *\nfunction _initReflector() {\n
reflector.reflectionCapabilities = new ReflectionCapabilities();\n }\n\n/**\n * A platform that included corePlatform
and the compiler.\n *\n * @experimental\n *\nexport const /** @type {?} */ platformCoreDynamic =
createPlatformFactory(platformCore, 'coreDynamic', [\n { provide: COMPILER_OPTIONS, useValue: {}, multi:
true},\n { provide: CompilerFactory, useClass: JitCompilerFactory},\n { provide: PLATFORM_INITIALIZER,
useValue: _initReflector, multi: true},\n]);\n\n/**\n * @param {?} optionsArr\n * @return {?}\n *\nfunction
_mergeOptions(optionsArr: CompilerOptions[]): CompilerOptions {\n return {\n useDebug:
_lastDefined(optionsArr.map(options => options.useDebug)),\n useJit: _lastDefined(optionsArr.map(options =>
options.useJit)),\n defaultEncapsulation: _lastDefined(optionsArr.map(options =>
options.defaultEncapsulation)),\n providers: _mergeArrays(optionsArr.map(options => options.providers))\n
};\n }\n\n/**\n * @param {?} args\n * @return {?}\n *\nfunction _lastDefined<T>(args: T[]): T {\n for (let /**
@type {?} */ i = args.length - 1; i >= 0; i--) {\n if (args[i] !== undefined) {\n return args[i];\n }\n }\n
return undefined;\n }\n\n/**\n * @param {?} parts\n * @return {?}\n *\nfunction _mergeArrays(parts: any[][]): any[] {\n
const /** @type {?} */ result: any[] = [];\n parts.forEach((part) => part && result.push(...part));\n return
result;\n }\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n }\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/jit/compiler_factory.js.map
No license file was found, but licenses were detected in source scan.

```

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/** @type {?} */ VIEW_VAR = o.variable('view');\nconst /** @type {?} */ COMPONENT_VIEW_VAR =
o.variable('componentView');\nconst /** @type {?} */ RENDER_EL_VAR = o.variable('el');\nconst /** @type {?} */
*/ EVENT_NAME_VAR = o.variable('eventName');\n\nconst /** @type {?} */ RESET_CHANGES_STMT =
o.THIS_EXPR.prop(CHANGES_FIELD_NAME).set(o.literalMap({})).toStmt();\n/**\n * We generate directive
wrappers to prevent code bloat when a directive is used.\n * A directive wrapper encapsulates\n * the dirty
checking for `@Input`, the handling of `@HostListener` / `@HostBinding`\n * and calling the lifecyclehooks
`ngOnInit`, `ngOnChanges`, `ngDoCheck`.\n * *\n * So far, only `@Input` and the lifecycle hooks have been
implemented.\n * ^\n*@CompilerInjectable()\nexport class DirectiveWrapperCompiler {\n/**\n * @param {?} id\n *
@return {?} */\n * ^\nstatic dirWrapperClassName(id: CompileIdentifierMetadata) {\n return
`Wrapper_${identifierName(id)}`;\n }\n/**\n * @param {?} compilerConfig\n * @param {?} _exprParser\n *
@param {?} _schemaRegistry\n * @param {?} _console\n * ^\nconstructor(\nprivate compilerConfig:
CompilerConfig,\nprivate _exprParser: Parser,\nprivate _schemaRegistry: ElementSchemaRegistry,\nprivate
_console: Console) {\n}\n/**\n * @param {?} dirMeta\n * @return {?} */\n * ^\ncompile(dirMeta:
CompileDirectiveMetadata): DirectiveWrapperCompileResult {\n const /** @type {?} */ hostParseResult =
parseHostBindings(dirMeta, this._exprParser, this._schemaRegistry);\n reportParseErrors(hostParseResult.errors,
this._console);\n\n const /** @type {?} */ builder = new DirectiveWrapperBuilder(this.compilerConfig,
dirMeta);\n Object.keys(dirMeta.inputs).forEach((inputFieldName) => {\n
addCheckInputMethod(inputFieldName, builder);\n });\n addNgDoCheckMethod(builder);\n
addCheckHostMethod(hostParseResult.hostProps, hostParseResult.hostListeners, builder);\n
addHandleEventMethod(hostParseResult.hostListeners, builder);\n addSubscribeMethod(dirMeta, builder);\n\n
const /** @type {?} */ classStmt = builder.build();\n return new DirectiveWrapperCompileResult([classStmt],
classStmt.name);\n }\n}\n\nfunction DirectiveWrapperCompiler_tsickle_Closure_declarations() {\n /** @type {?} */
*\nDirectiveWrapperCompiler.prototype.compilerConfig;\n /** @type {?} */
*\nDirectiveWrapperCompiler.prototype._exprParser;\n /** @type {?} */
*\nDirectiveWrapperCompiler.prototype._schemaRegistry;\n /** @type {?} */
*\nDirectiveWrapperCompiler.prototype._console;\n}\n\n\nclass DirectiveWrapperBuilder implements
ClassBuilder {\n fields: o.ClassField[] = [];\n getters: o.ClassGetter[] = [];\n methods: o.ClassMethod[] = [];\n
ctorStmts: o.Statement[] = [];\n detachStmts: o.Statement[] = [];\n destroyStmts: o.Statement[] = [];\n\n
genChanges: boolean;\n ngOnChanges: boolean;\n ngOnInit: boolean;\n ngDoCheck: boolean;\n ngOnDestroy:
boolean;\n/**\n * @param {?} compilerConfig\n * @param {?} dirMeta\n * ^\nconstructor(public compilerConfig:

```



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.callMethod('ngOnChanges', [o.THIS_EXPR.prop(CHANGES_FIELD_NAME)])\n                .toStmt());\n
}\n if (builder.compilerConfig.logBindingUpdate) {\n   onChangesStmts.push(\n
o.importExpr(createIdentifier(Identifiers.setBindingDebugInfoForChanges))\n                .callFn(\n
[VIEW_VAR.prop('renderer'), RENDER_EL_VAR, o.THIS_EXPR.prop(CHANGES_FIELD_NAME)])\n
.toStmt());\n   }\n   onChangesStmts.push(RESET_CHANGES_STMT);\n   lifecycleStmts.push(new
o.IfStmt(changedVar, onChangesStmts));\n   }\n   }\n   if (builder.ngOnInit) {\n     lifecycleStmts.push(new o.IfStmt(\n
VIEW_VAR.prop('numberOfChecks').identical(new o.LiteralExpr(0)),\n
[o.THIS_EXPR.prop(CONTEXT_FIELD_NAME).callMethod('ngOnInit', []).toStmt()]);\n   }\n   if
(builder.ngDoCheck) {\n
lifecycleStmts.push(o.THIS_EXPR.prop(CONTEXT_FIELD_NAME).callMethod('ngDoCheck', []).toStmt());\n
}\n   if (lifecycleStmts.length > 0) {\n     stmts.push(new o.IfStmt(o.not(THROW_ON_CHANGE_VAR),
lifecycleStmts));\n   }\n   stmts.push(new o.ReturnStatement(changedVar));\n   }\n   builder.methods.push(new
o.ClassMethod(\n     'ngDoCheck',\n     [\n       new o.FnParam(\n         VIEW_VAR.name,\n
o.importType(createIdentifier(Identifiers.AppView), [o.DYNAMIC_TYPE])),\n       new
o.FnParam(RENDER_EL_VAR.name, o.DYNAMIC_TYPE),\n       new
o.FnParam(THROW_ON_CHANGE_VAR.name, o.BOOL_TYPE),\n     ],\n     stmts,\n
o.BOOL_TYPE));\n   }\n   /**\n    * @param {?} input\n    * @param {?} builder\n    * @return {?} *\n    */\n   function
addCheckInputMethod(input: string, builder: DirectiveWrapperBuilder) {\n     const /** @type {?} */ field =
createCheckBindingField(builder);\n     const /** @type {?} */ onChangeStatements: o.Statement[] = [\n
o.THIS_EXPR.prop(CHANGED_FIELD_NAME).set(o.literal(true)).toStmt(),\n
o.THIS_EXPR.prop(CONTEXT_FIELD_NAME).prop(input).set(CURR_VALUE_VAR).toStmt(),\n   ];\n     if
(builder.genChanges) {\n       onChangeStatements.push(o.THIS_EXPR.prop(CHANGES_FIELD_NAME)\n
.key(o.literal(input))\n
                .set(o.importExpr(createIdentifier(Identifiers.SimpleChange))\n
                .instantiate([field.expression, CURR_VALUE_VAR]))\n
                .toStmt());\n     }\n   }\n   const /** @type {?} */ methodBody: o.Statement[] = createCheckBindingStmt(\n
CURR_VALUE_VAR, forceUpdate: FORCE_UPDATE_VAR, stmts: []), field.expression,\n
THROW_ON_CHANGE_VAR, onChangeStatements);\n   builder.methods.push(new o.ClassMethod(\n
`check_${input}`, \n     [\n       new o.FnParam(CURR_VALUE_VAR.name, o.DYNAMIC_TYPE),\n       new
o.FnParam(THROW_ON_CHANGE_VAR.name, o.BOOL_TYPE),\n       new
o.FnParam(FORCE_UPDATE_VAR.name, o.BOOL_TYPE),\n     ],\n     methodBody));\n   }\n   /**\n    * @param {?}
hostProps\n    * @param {?} hostEvents\n    * @param {?} builder\n    * @return {?} *\n    */\n   function
addCheckHostMethod(\n     hostProps: BoundElementPropertyAst[], hostEvents: BoundEventAst[],\n     builder:
DirectiveWrapperBuilder) {\n     const /** @type {?} */ stmts: o.Statement[] = [];\n     const /** @type {?} */
methodParams: o.FnParam[] = [\n       new o.FnParam(\n         VIEW_VAR.name,\n
o.importType(createIdentifier(Identifiers.AppView), [o.DYNAMIC_TYPE])),\n       new o.FnParam(\n
COMPONENT_VIEW_VAR.name,\n         o.importType(createIdentifier(Identifiers.AppView),
[o.DYNAMIC_TYPE])),\n       new o.FnParam(RENDER_EL_VAR.name, o.DYNAMIC_TYPE),\n       new
o.FnParam(THROW_ON_CHANGE_VAR.name, o.BOOL_TYPE),\n     ];\n     hostProps.forEach((hostProp,\n
hostPropIdx) => {\n       const /** @type {?} */ field = createCheckBindingField(builder);\n       const /** @type {?} */
evalResult = convertPropertyBinding(\n         builder, null, o.THIS_EXPR.prop(CONTEXT_FIELD_NAME),
hostProp.value, field.bindingId);\n       if (!evalResult) {\n         return;\n       }\n       let /** @type {?} */
securityContextExpr: o.ReadVarExpr;\n       if (hostProp.needsRuntimeSecurityContext) {\n         securityContextExpr =
o.variable(`secCtx_${methodParams.length}`);\n         methodParams.push(new o.FnParam(\n
securityContextExpr.name, o.importType(createIdentifier(Identifiers.SecurityContext)));\n       }\n       let /** @type
{?} */ checkBindingStmts: o.Statement[];\n       if (hostProp.isAnimation) {\n         const {updateStmts, detachStmts} =
triggerAnimation(\n           VIEW_VAR, COMPONENT_VIEW_VAR, hostProp, hostEvents,\n
o.THIS_EXPR.prop(EVENT_HANDLER_FIELD_NAME)\n
                .or(o.importExpr(createIdentifier(Identifiers.noop))),\n           RENDER_EL_VAR, evalResult.currValExpr,

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field.expression);\n    checkBindingStmts = updateStmts);\n    builder.detachStmts.push(...detachStmts);\n  } else
{\n    checkBindingStmts = writeToRenderer(\n      VIEW_VAR, hostProp, RENDER_EL_VAR,
evalResult.currValExpr,\n      builder.compilerConfig.logBindingUpdate, securityContextExpr);\n  }\n\n  stmts.push(...createCheckBindingStmt(\n    evalResult, field.expression, THROW_ON_CHANGE_VAR,
checkBindingStmts);\n  });\n  builder.methods.push(new o.ClassMethod('checkHost', methodParams,
stmts));\n}\n\n/**\n * @param {?} hostListeners\n * @param {?} builder\n * @return {?}\n */\nfunction
addHandleEventMethod(hostListeners: BoundEventAst[], builder: DirectiveWrapperBuilder) {\n  const /** @type
{?} */ resultVar = o.variable('result');\n  const /** @type {?} */ actionStmts: o.Statement[] =
[resultVar.set(o.literal(true)).toDeclStmt(o.BOOL_TYPE)];\n  hostListeners.forEach((hostListener, eventId) => {\n
const /** @type {?} */ evalResult = convertActionBinding(\n    builder, null,
o.THIS_EXPR.prop(CONTEXT_FIELD_NAME), hostListener.handler,\n    `sub_${eventId}`);\n  const /**
@type {?} */ trueStmts = evalResult.stmts;\n  if (evalResult.preventDefault) {\n
trueStmts.push(resultVar.set(evalResult.preventDefault.and(resultVar)).toStmt());\n  }\n  // TODO(tbosch):
convert this into a `switch` once our OutputAst supports it.\n  actionStmts.push(\n    new
o.IfStmt(EVENT_NAME_VAR.equals(o.literal(hostListener.fullName)), trueStmts);\n  });\n  actionStmts.push(new o.ReturnStatement(resultVar));\n  builder.methods.push(new o.ClassMethod(\n
'handleEvent',\n    [\n      new o.FnParam(EVENT_NAME_VAR.name, o.STRING_TYPE),\n      new
o.FnParam(EventHandlerVars.event.name, o.DYNAMIC_TYPE)\n    ],\n    actionStmts,
o.BOOL_TYPE));\n}\n\n/**\n * @param {?} dirMeta\n * @param {?} builder\n * @return {?}\n */\nfunction
addSubscribeMethod(dirMeta: CompileDirectiveMetadata, builder: DirectiveWrapperBuilder) {\n  const /** @type
{?} */ methodParams: o.FnParam[] = [\n    new o.FnParam(\n      VIEW_VAR.name,
o.importType(createIdentifier(Identifiers.AppView), [o.DYNAMIC_TYPE])),\n    new
o.FnParam(EVENT_HANDLER_FIELD_NAME, o.DYNAMIC_TYPE)\n  ];\n  const /** @type {?} */ stmts:
o.Statement[] = [\n
o.THIS_EXPR.prop(EVENT_HANDLER_FIELD_NAME).set(o.variable(EVENT_HANDLER_FIELD_NAME)).t
oStmt()\n  ];\n  Object.keys(dirMeta.outputs).forEach((emitterPropName, emitterIdx) => {\n    const /** @type {?}
*/ eventName = dirMeta.outputs[emitterPropName];\n    const /** @type {?} */ paramName =
`emit${emitterIdx}`;\n    methodParams.push(new o.FnParam(paramName, o.BOOL_TYPE));\n    const /** @type
{?} */ subscriptionFieldName = `subscription${emitterIdx}`;\n    builder.fields.push(new
o.ClassField(subscriptionFieldName, o.DYNAMIC_TYPE));\n    stmts.push(new o.IfStmt(o.variable(paramName),
[\n      o.THIS_EXPR.prop(subscriptionFieldName)\n        .set(o.THIS_EXPR.prop(CONTEXT_FIELD_NAME)\n
        .prop(emitterPropName)\n        .callMethod(\n
o.BuiltinMethod.SubscribeObservable,\n          [o.variable(EVENT_HANDLER_FIELD_NAME)\n
            .callMethod(o.BuiltinMethod.Bind, [VIEW_VAR, o.literal(eventName)])])\n        .toStmt()\n      ]));\n
builder.destroyStmts.push(\n      o.THIS_EXPR.prop(subscriptionFieldName)\n
        .and(o.THIS_EXPR.prop(subscriptionFieldName).callMethod('unsubscribe', []))\n        .toStmt());\n  });\n
builder.methods.push(new o.ClassMethod('subscribe', methodParams, stmts));\n}\n\n\nclass ParseResult {\n  /**\n *
@param {?} hostProps\n * @param {?} hostListeners\n * @param {?} errors\n */\n  constructor(\n    public hostProps:
BoundElementPropertyAst[],\n    public hostListeners: BoundEventAst[],\n    public errors: ParseError[])
{\n  }\n\n  function ParseResult_tsickle_Closure_declarations() {\n    /** @type {?}
*/\n    ParseResult.prototype.hostProps;\n    /** @type {?} */\n    ParseResult.prototype.hostListeners;\n    /** @type {?}
*/\n    ParseResult.prototype.errors;\n  }\n\n  /**\n * @param {?} dirMeta\n * @param {?} exprParser\n * @param {?}
schemaRegistry\n * @return {?}\n */\n  function parseHostBindings(\n    dirMeta: CompileDirectiveMetadata,
exprParser: Parser,\n    schemaRegistry: ElementSchemaRegistry): ParseResult {\n    const /** @type {?} */ errors:
ParseError[] = [];\n    const /** @type {?} */ parser =\n      new BindingParser(exprParser,
DEFAULT_INTERPOLATION_CONFIG, schemaRegistry, [], errors);\n    const /** @type {?} */ moduleUrl =
identifierModuleUrl(dirMeta.type);\n    const /** @type {?} */ sourceFileName = moduleUrl ?\n      `in Directive
${identifierName(dirMeta.type)} in ${moduleUrl}` :\n      `in Directive ${identifierName(dirMeta.type)}`;\n    const

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/** @type {?} */ sourceFile = new ParseSourceFile("", sourceFileName);\n const /** @type {?} */ sourceSpan =
new ParseSourceSpan(\n   new ParseLocation(sourceFile, null, null, null),\n   new ParseLocation(sourceFile,
null, null, null));\n const /** @type {?} */ parsedHostProps =
parser.createDirectiveHostPropertyAsts(dirMeta.toSummary(), sourceSpan);\n const /** @type {?} */
parsedHostListeners = parser.createDirectiveHostEventAsts(dirMeta.toSummary(), sourceSpan);\n\n return new
ParseResult(parsedHostProps, parsedHostListeners, errors);\n\n\n /** @param {?} parseErrors\n * @param {?}
console\n * @return {?} */\n\n function reportParseErrors(parseErrors: ParseError[], console: Console) {\n const /**
@type {?} */ warnings = parseErrors.filter(error => error.level === ParseErrorLevel.WARNING);\n const /**
@type {?} */ errors = parseErrors.filter(error => error.level === ParseErrorLevel.FATAL);\n\n if (warnings.length
> 0) {\n   this._console.warn(`Directive parse warnings:\n\n${warnings.join("\n")}`);\n } }\n\n if (errors.length > 0)
{\n   throw new Error(`Directive parse errors:\n\n${errors.join("\n")}`);\n } }\n\n\n export class
DirectiveWrapperExpressions {\n /**\n * @param {?} dir\n * @param {?} depsExpr\n * @return {?} */\n\n static
create(dir: CompileIdentifierMetadata, depsExpr: o.Expression[]): o.Expression {\n   return
o.importExpr(dir).instantiate(depsExpr, o.importType(dir));\n }\n\n /**\n * @param {?} dirWrapper\n * @return
{?} */\n\n static context(dirWrapper: o.Expression): o.ReadPropExpr {\n   return
dirWrapper.prop(CONTEXT_FIELD_NAME);\n }\n\n /**\n * @param {?} dirWrapper\n * @param {?} view\n *
@param {?} renderElement\n * @param {?} throwOnChange\n * @return {?} */\n\n static ngDoCheck(\n
dirWrapper: o.Expression, view: o.Expression, renderElement: o.Expression,\n   throwOnChange: o.Expression):
o.Expression {\n   return dirWrapper.callMethod('ngDoCheck', [view, renderElement, throwOnChange]);\n
}\n\n /**\n * @param {?} hostProps\n * @param {?} dirWrapper\n * @param {?} view\n * @param {?}
componentView\n * @param {?} renderElement\n * @param {?} throwOnChange\n * @param {?}
runtimeSecurityContexts\n * @return {?} */\n\n static checkHost(\n   hostProps: BoundElementPropertyAst[],
dirWrapper: o.Expression, view: o.Expression,\n   componentView: o.Expression, renderElement: o.Expression,
throwOnChange: o.Expression,\n   runtimeSecurityContexts: o.Expression[]): o.Statement[] {\n   if
(hostProps.length) {\n     return [dirWrapper\n       .callMethod(\n         'checkHost', [view,
componentView, renderElement, throwOnChange].concat(\n           runtimeSecurityContexts))\n       .toStmt()];\n   } else {\n     return [];\n   }\n }\n\n /**\n * @param {?} hostProps\n * @param {?}
dirWrapper\n * @param {?} view\n * @param {?} componentView\n * @param {?} renderEl\n * @return {?} */\n\n
static ngOnDetach(\n   hostProps: BoundElementPropertyAst[], dirWrapper: o.Expression, view:
o.Expression,\n   componentView: o.Expression, renderEl: o.Expression): o.Statement[] {\n   if
(hostProps.some(prop => prop.isAnimation)) {\n     return [dirWrapper\n       .callMethod(\n
'ngOnDetach',\n         [\n           view,\n           componentView,\n           renderEl,\n
         ])\n       .toStmt()];\n   } else {\n     return [];\n   }\n }\n\n /**\n * @param {?} dir\n * @param {?}
dirWrapper\n * @return {?} */\n\n static ngOnDestroy(dir: CompileDirectiveSummary, dirWrapper: o.Expression):
o.Statement[] {\n   if (dir.type.lifecycleHooks.indexOf(LifecycleHooks.OnDestroy) !== -1 ||\n
Object.keys(dir.outputs).length > 0) {\n     return [dirWrapper.callMethod('ngOnDestroy', []).toStmt()];\n   } else
{\n     return [];\n   }\n }\n\n /**\n * @param {?} dirMeta\n * @param {?} hostProps\n * @param {?} usedEvents\n
* @param {?} dirWrapper\n * @param {?} view\n * @param {?} eventListener\n * @return {?} */\n\n static
subscribe(\n   dirMeta: CompileDirectiveSummary, hostProps: BoundElementPropertyAst[], usedEvents:
string[],\n   dirWrapper: o.Expression, view: o.Expression, eventListener: o.Expression): o.Statement[] {\n   let
/** @type {?} */ needsSubscribe = false;\n   const /** @type {?} */ eventFlags: o.Expression[] = [];\n
Object.keys(dirMeta.outputs).forEach((propName) => {\n     const /** @type {?} */ eventName =
dirMeta.outputs[propName];\n     const /** @type {?} */ eventUsed = usedEvents.indexOf(eventName) > -1;\n
needsSubscribe = needsSubscribe || eventUsed;\n     eventFlags.push(o.literal(eventUsed));\n   });\n
hostProps.forEach((hostProp) => {\n     if (hostProp.isAnimation && usedEvents.length > 0) {\n
needsSubscribe = true;\n     }\n   });\n   if (needsSubscribe) {\n     return [\n
dirWrapper.callMethod('subscribe', [view, eventListener].concat(eventFlags)).toStmt()\n     ];\n   } else {\n
return [];\n   }\n }\n\n /**\n * @param {?} hostEvents\n * @param {?} dirWrapper\n * @param {?} eventName\n *

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@param {?} compileElement\n * @return {?} \n *\nfunction subscribeToRenderEvents(\n  usedEvents:
Map<string, EventSummary>, compileElement: CompileElement) {\n  const /** @type {?} */
eventAndTargetExprs: o.Expression[] = [];\n  usedEvents.forEach((event) => {\n    if (!event.phase) {\n
eventAndTargetExprs.push(o.literal(event.name), o.literal(event.target));\n    }\n  });\n  if
(eventAndTargetExprs.length) {\n    const /** @type {?} */ disposableVar =
o.variable(`disposable_${compileElement.view.disposables.length}`);\n
compileElement.view.disposables.push(disposableVar);\n    compileElement.view.createMethod.addStmt(\n
disposableVar\n      .set(o.importExpr(createIdentifier(Identifiers.subscribeToRenderElement))).callFn([\n
o.THIS_EXPR, compileElement.renderNode, createInlineArray(eventAndTargetExprs),\n
handleEventExpr(compileElement)\n        ]))\n      .toDeclStmt(o.FUNCTION_TYPE,
[o.StmtModifier.Private]);\n  }\n}\n\n/**\n * @param {?} usedEvents\n * @param {?} directives\n * @param {?}
compileElement\n * @return {?} \n *\nfunction subscribeToDirectiveEvents(\n  usedEvents: Map<string,
EventSummary>, directives: DirectiveAst[],\n  compileElement: CompileElement) {\n  const /** @type {?} */
usedEventNames = Array.from(usedEvents.keys());\n  directives.forEach((dirAst) => {\n    const /** @type {?} */
dirWrapper = compileElement.directiveWrapperInstance.get(dirAst.directive.type.reference);\n
compileElement.view.createMethod.addStmts(DirectiveWrapperExpressions.subscribe(\n  dirAst.directive,
dirAst.hostProperties, usedEventNames, dirWrapper, o.THIS_EXPR,\n    handleEventExpr(compileElement));\n
});\n}\n\n/**\n * @param {?} boundEvents\n * @param {?} directives\n * @param {?} compileElement\n * @return
{} \n *\nfunction generateHandleEventMethod(\n  boundEvents: BoundEventAst[], directives: DirectiveAst[],
compileElement: CompileElement) {\n  const /** @type {?} */ hasComponentHostListener =\n
directives.some((dirAst) => dirAst.hostEvents.some((event) => dirAst.directive.isComponent));\n  const /**
@type {?} */ markPathToRootStart = hasComponentHostListener ? compileElement.compViewExpr :
o.THIS_EXPR;\n  const /** @type {?} */ handleEventStmts = new CompileMethod(compileElement.view);\n
handleEventStmts.resetDebugInfo(compileElement.nodeIndex, compileElement.sourceAst);\n
handleEventStmts.push(markPathToRootStart.callMethod('markPathToRootAsCheckOnce', []).toStmt());\n  const
/** @type {?} */ eventNameVar = o.variable('eventName');\n  const /** @type {?} */ resultVar =
o.variable('result');\n  handleEventStmts.push(resultVar.set(o.literal(true)).toDeclStmt(o.BOOL_TYPE));\n
directives.forEach((dirAst, dirIdx) => {\n    const /** @type {?} */ dirWrapper =
compileElement.directiveWrapperInstance.get(dirAst.directive.type.reference);\n    if (dirAst.hostEvents.length > 0)
{\n      handleEventStmts.push(\n        resultVar\n          .set(DirectiveWrapperExpressions\n
.handleEvent(\n            dirAst.hostEvents, dirWrapper, eventNameVar, EventHandlerVars.event)\n
          .and(resultVar))\n        .toStmt());\n    }\n  });\n  boundEvents.forEach((renderEvent, renderEventIdx) =>
{\n    const /** @type {?} */ evalResult = convertActionBinding(\n      compileElement.view,
compileElement.view, compileElement.view.componentContext,\n      renderEvent.handler,
`sub_${renderEventIdx}`);\n    const /** @type {?} */ trueStmts = evalResult.stmts;\n    if
(evalResult.preventDefault) {\n
trueStmts.push(resultVar.set(evalResult.preventDefault.and(resultVar)).toStmt());\n    }\n    // TODO(tbosch):
convert this into a `switch` once our OutputAst supports it.\n    handleEventStmts.push(\n      new
o.IfStmt(eventNameVar.equals(o.literal(renderEvent.fullName)), trueStmts);\n    });\n
handleEventStmts.push(new o.ReturnStatement(resultVar));\n    compileElement.view.methods.push(new
o.ClassMethod(\n      getHandleEventMethodName(compileElement.nodeIndex),\n      [\n        new
o.FnParam(eventNameVar.name, o.STRING_TYPE),\n        new o.FnParam(EventHandlerVars.event.name,
o.DYNAMIC_TYPE)\n      ],\n      handleEventStmts.finish(), o.BOOL_TYPE));\n  }\n}\n\n/**\n * @param {?}
compileElement\n * @return {?} \n *\nfunction handleEventExpr(compileElement: CompileElement) {\n  const /**
@type {?} */ handleEventMethodName = getHandleEventMethodName(compileElement.nodeIndex);\n  return
o.THIS_EXPR.callMethod('eventHandler', [o.THIS_EXPR.prop(handleEventMethodName)];\n}\n\ninterface DecoratorInvocation {\n  type:
EventSummary = {\n    name: string,\n    target: string,\n    phase: string\n  }\n  ninterface DecoratorInvocation {\n  type:
Function;\n  args?: any[];\n}\n"}

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/event\_binder.js.map

No license file was found, but licenses were detected in source scan.

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@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport * as chars from
'./chars';\nimport {NumberWrapper, isPresent} from './facade/lang';\nimport {CompilerInjectable} from
'./injectable';\nexport type TokenType = number;\nexport let TokenType: any = {};\nTokenType.Character =
0;\nTokenType.Identifier = 1;\nTokenType.Keyword = 2;\nTokenType.String = 3;\nTokenType.Operator =
4;\nTokenType.Number = 5;\nTokenType.Error = 6;\nTokenType[TokenType.Character] =
'Character';\nTokenType[TokenType.Identifier] = 'Identifier';\nTokenType[TokenType.Keyword] =
'Keyword';\nTokenType[TokenType.String] = 'String';\nTokenType[TokenType.Operator] =
'Operator';\nTokenType[TokenType.Number] = 'Number';\nTokenType[TokenType.Error] =
'Error';\n\nconst /** @type {?} */ KEYWORDS = ['var', 'let', 'null', 'undefined', 'true', 'false', 'if', 'else',
'this'];\n\n@CompilerInjectable()\nexport class Lexer {\n  /**\n   * @param {?} text\n   * @return {?} */\n  *^tokenize(text: string): Token[] {\n    const /** @type {?} */ scanner = new _Scanner(text);\n    const /** @type
{?} */ tokens: Token[] = [];\n    let /** @type {?} */ token = scanner.scanToken();\n    while (token != null) {\n
tokens.push(token);\n    token = scanner.scanToken();\n  }\n  return tokens;\n}\n}\n\nexport class Token
{\n  /**\n   * @param {?} index\n   * @param {?} type\n   * @param {?} numValue\n   * @param {?} strValue\n
   *^constructor(\n  public index: number,\n  public type: TokenType,\n  public numValue: number,\n  public strValue:
string) {\n  /**\n   * @param {?} code\n   * @return {?} */\n  *^isCharacter(code: number): boolean {\n    return
this.type == TokenType.Character && this.numValue == code;\n  }\n  /**\n   * @return {?} */\n  *^isNumber():
boolean {\n    return this.type == TokenType.Number;\n  }\n  /**\n   * @return {?} */\n  *^isString(): boolean {\n
return this.type == TokenType.String;\n  }\n  /**\n   * @param {?} operator\n   * @return {?} */\n  *^isOperator(operator: string):
boolean {\n    return this.type == TokenType.Operator && this.strValue == operator;\n  }\n  /**\n   * @return {?} */\n
*^isIdentifier(): boolean {\n    return this.type == TokenType.Identifier;\n  }\n  /**\n   * @return {?} */\n  *^isKeyword():
boolean {\n    return this.type == TokenType.Keyword;\n  }\n  /**\n   * @return {?} */\n  *^isKeywordLet(): boolean {\n
return this.type == TokenType.Keyword && this.strValue == 'let';\n  }\n  /**\n   * @return {?} */\n  *^isKeywordNull(): boolean
{\n    return this.type == TokenType.Keyword && this.strValue == 'null';\n  }\n  /**\n   * @return {?} */\n
*^isKeywordUndefined(): boolean {\n    return this.type == TokenType.Keyword && this.strValue ==
'undefined';\n  }\n  /**\n   * @return {?} */\n  *^isKeywordTrue(): boolean {\n    return this.type == TokenType.Keyword
&& this.strValue == 'true';\n  }\n  /**\n   * @return {?} */\n  *^isKeywordFalse(): boolean {\n    return this.type ==
TokenType.Keyword && this.strValue == 'false';\n  }\n  /**\n   * @return {?} */\n  *^isKeywordThis(): boolean {\n
return this.type == TokenType.Keyword && this.strValue == 'this';\n  }\n  /**\n   * @return {?} */\n  *^isError(): boolean {\n
return this.type == TokenType.Error;\n  }\n  /**\n   * @return {?} */\n  *^toIntNumber(): number {\n    return this.type ==
TokenType.Number ? this.numValue : -1;\n  }\n  /**\n   * @return {?} */\n  *^toIntString(): string {\n    switch (this.type) {\n
case TokenType.Character:\n    case TokenType.Identifier:\n    case TokenType.Keyword:\n    case
TokenType.Operator:\n    case TokenType.String:\n    case TokenType.Error:\n    return this.strValue;\n    case
TokenType.Number:\n    return this.numValue.toString();\n    default:\n    return null;\n  }\n}\n}\n\nfunction Token_tsickle_Closure_declarations() {\n  /** @type {?} */\n  *^Token.prototype.index;\n  /** @type
{?} */\n  *^Token.prototype.type;\n  /** @type {?} */\n  *^Token.prototype.numValue;\n  /** @type {?} */\n
*^Token.prototype.strValue;\n}\n\n/**\n   * @param {?} index\n   * @param {?} code\n   * @return {?} */\n
*^function newCharacterToken(index: number, code: number): Token {\n  return new Token(index,
TokenType.Character, code, String.fromCharCode(code));\n}\n\n/**\n   * @param {?} index\n   * @param {?} text\n
   * @return {?} */\n  *^function newIdentifierToken(index: number, text: string): Token {\n    return new Token(index,
TokenType.Identifier, 0, text);\n  }\n\n/**\n   * @param {?} index\n   * @param {?} text\n
   * @return {?} */\n  *^function newKeywordToken(index: number, text: string): Token {\n    return new Token(index, TokenType.Keyword, 0,
text);\n  }\n\n/**\n   * @param {?} index\n   * @param {?} text\n
   * @return {?} */\n  *^function newOperatorToken(index: number, text: string): Token {\n    return new Token(index, TokenType.Operator, 0,
text);\n  }\n\n/**\n   * @param {?} index\n   * @param {?} text\n
   * @return {?} */\n  *^function newStringToken(index:
number, text: string): Token {\n    return new Token(index, TokenType.String, 0, text);\n  }\n\n/**\n   * @param {?}
index\n   * @param {?} n\n
   * @return {?} */\n  *^function newNumberToken(index: number, n: number): Token {\n

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return new Token(index, TokenType.Number, n, "");\n\n/**\n * @param {?} index\n * @param {?} message\n * @return {?}\n */\nfunction newErrorToken(index: number, message: string): Token {\n  return new Token(index, TokenType.Error, 0, message);\n}\n\nexport var /** @type {?} */ EOF: Token = new Token(-1, TokenType.Character, 0, "");\n\nclass _Scanner {\n  length: number;\n  peek: number = 0;\n  index: number = -1;\n\n  /**\n   * @param {?} input\n   */\n  constructor(public input: string) {\n    this.length = input.length;\n    this.advance();\n  }\n\n  /**\n   * @return {?}\n   */\n  advance() {\n    this.peek = ++this.index >= this.length ? chars.$EOF : this.input.charCodeAt(this.index);\n  }\n\n  /**\n   * @return {?}\n   */\n  scanToken(): Token {\n    const /** @type {?} */ input = this.input, /** @type {?} */ length = this.length;\n    let /** @type {?} */ peek = this.peek, /** @type {?} */ index = this.index;\n\n    // Skip whitespace.\n    while (peek <= chars.$SPACE) {\n      if (++index >= length) {\n        peek = chars.$EOF;\n        break;\n      } else {\n        peek = input.charCodeAt(index);\n      }\n    }\n\n    this.peek = peek;\n    this.index = index;\n\n    if (index >= length) {\n      return null;\n    }\n\n    // Handle identifiers and numbers.\n    if (isIdentifierStart(peek)) return this.scanIdentifier();\n    if (chars.isDigit(peek)) return this.scanNumber(index);\n\n    const /** @type {?} */ start: number = index;\n    switch (peek) {\n      case chars.$PERIOD:\n        this.advance();\n        return chars.isDigit(this.peek) ? this.scanNumber(start) : newCharacterToken(start, chars.$PERIOD);\n      case chars.$LPAREN:\n      case chars.$RPAREN:\n      case chars.$LBRACE:\n      case chars.$RBRACE:\n      case chars.$LBRACKET:\n      case chars.$RBRACKET:\n      case chars.$COMMA:\n      case chars.$COLON:\n      case chars.$SEMICOLON:\n        return this.scanCharacter(start, peek);\n      case chars.$SQ:\n      case chars.$DQ:\n        return this.scanString();\n      case chars.$HASH:\n      case chars.$PLUS:\n      case chars.$MINUS:\n      case chars.$STAR:\n      case chars.$SLASH:\n      case chars.$PERCENT:\n      case chars.$CARET:\n        return this.scanOperator(start, String.fromCharCode(peek));\n      case chars.$QUESTION:\n        return this.scanComplexOperator(start, '?', chars.$PERIOD, '.');\n      case chars.$LT:\n      case chars.$GT:\n        return this.scanComplexOperator(start, String.fromCharCode(peek), chars.$EQ, '=');\n      case chars.$BANG:\n      case chars.$EQ:\n        return this.scanComplexOperator(start, String.fromCharCode(peek), chars.$EQ, '=', chars.$EQ, '=');\n      case chars.$AMPERSAND:\n        return this.scanComplexOperator(start, '&', chars.$AMPERSAND, '&');\n      case chars.$BAR:\n        return this.scanComplexOperator(start, '|', chars.$BAR, '|');\n      case chars.$NBSP:\n        while (chars.isWhitespace(this.peek)) this.advance();\n        return this.scanToken();\n    }\n\n    this.advance();\n    return this.error(`Unexpected character [${String.fromCharCode(peek)}]`, 0);\n  }\n\n  /**\n   * @param {?} start\n   * @param {?} code\n   */\n  scanCharacter(start: number, code: number): Token {\n    this.advance();\n    return newCharacterToken(start, code);\n  }\n\n  /**\n   * @param {?} start\n   * @param {?} str\n   */\n  scanString(): Token {\n    this.advance();\n    return newOperatorToken(start, str);\n  }\n\n  /**\n   * Tokenize a 2/3 char long operator\n   * @param {?} start\n   * @param {?} start index in the expression\n   * @param {?} one first symbol (always part of the operator)\n   * @param {?} twoCode code point for the second symbol\n   * @param {?} two second symbol (part of the operator when the second code point matches)\n   * @param {?=} threeCode code point for the third symbol\n   * @param {?=} three third symbol (part of the operator when provided and matches source expression)\n   */\n  scanComplexOperator(start: number, one: string, twoCode: number, two: string, threeCode?: number, three?: string): Token {\n    this.advance();\n    let /** @type {?} */ str: string = one;\n    if (this.peek == twoCode) {\n      this.advance();\n      str += two;\n    }\n    if (isPresent(threeCode) && this.peek == threeCode) {\n      this.advance();\n      str += three;\n    }\n    return newOperatorToken(start, str);\n  }\n\n  /**\n   * @return {?}\n   */\n  scanIdentifier(): Token {\n    const /** @type {?} */ start: number = this.index;\n    this.advance();\n    while (isIdentifierPart(this.peek)) this.advance();\n    const /** @type {?} */ str: string = this.input.substring(start, this.index);\n    return KEYWORDS.indexOf(str) > -1 ? newKeywordToken(start, str) : newIdentifierToken(start, str);\n  }\n\n  /**\n   * @param {?} start\n   */\n  scanNumber(start: number): Token {\n    let /** @type {?} */ simple: boolean = (this.index === start);\n    this.advance();\n    // Skip initial digit.\n    while (true) {\n      if (chars.isDigit(this.peek)) {\n        // Do nothing.\n      } else if (this.peek == chars.$PERIOD) {\n        simple = false;\n      } else if (isExponentStart(this.peek)) {\n        this.advance();\n        if (isExponentSign(this.peek)) this.advance();\n        if (!chars.isDigit(this.peek)) return this.error('Invalid exponent', -1);\n        simple = false;\n      } else {\n        break;\n      }\n    }\n  }\n}

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    }\n    this.advance();\n  }\n  const /** @type {?} */ str: string = this.input.substring(start, this.index);\n  const
  /** @type {?} */ value: number = simple ? NumberWrapper.parseIntAutoRadix(str) : parseFloat(str);\n  return
  newNumberToken(start, value);\n  }\n/**\n * @return {?} */\n *^nscanString(): Token {\n  const /** @type {?} */
  start: number = this.index;\n  const /** @type {?} */ quote: number = this.peek;\n  this.advance(); // Skip initial
  quote.\n\n  let /** @type {?} */ buffer: string = "";\n  let /** @type {?} */ marker: number = this.index;\n  const
  /** @type {?} */ input: string = this.input;\n\n  while (this.peek !== quote) {\n    if (this.peek ===
  chars.BACKSLASH) {\n      buffer += input.substring(marker, this.index);\n      this.advance();\n      let /**
  @type {?} */ unescapedCode: number;\n      if (this.peek === chars.$u) {\n        // 4 character hex code for unicode
  character.\n        const /** @type {?} */ hex: string = input.substring(this.index + 1, this.index + 5);\n        if (/^[0-
  9a-f]+$/.test(hex)) {\n          unescapedCode = parseInt(hex, 16);\n        } else {\n          return this.error(`Invalid
  unicode escape [\\u${hex}]`, 0);\n        }\n        for (let /** @type {?} */ i: number = 0; i < 5; i++) {\n
  this.advance();\n        }\n        } else {\n          unescapedCode = unescape(this.peek);\n          this.advance();\n
  }\n        buffer += String.fromCharCode(unescapedCode);\n        marker = this.index;\n      } else if (this.peek ===
  chars.EOF) {\n        return this.error('Unterminated quote', 0);\n      } else {\n        this.advance();\n      }\n    }\n\n
  const /** @type {?} */ last: string = input.substring(marker, this.index);\n  this.advance(); // Skip terminating
  quote.\n\n  return newStringToken(start, buffer + last);\n  }\n/**\n * @param {?} message\n * @param {?}
  offset\n * @return {?} */\n *^nerror(message: string, offset: number): Token {\n  const /** @type {?} */ position:
  number = this.index + offset;\n  return newErrorToken(\n    position, `Lexer Error: ${message} at column
  ${position} in expression [${this.input}]`);\n  }\n}\n\nfunction _Scanner_tsickle_Closure_declarations() {\n/**
  @type {?} */\n *^n_Scanner.prototype.length;\n/** @type {?} */\n *^n_Scanner.prototype.peek;\n/** @type {?} */
  *^n_Scanner.prototype.index;\n/** @type {?} */\n *^n_Scanner.prototype.input;\n}\n\n/**\n * @param {?} code\n *
  @return {?} */\n *^nfunction isIdentifierStart(code: number): boolean {\n  return (chars.$a <= code && code <=
  chars.$z) || (chars.$A <= code && code <= chars.$Z) ||\n  (code == chars.$_) || (code == chars.$$);\n}\n\n/**\n *
  @param {?} input\n * @return {?} */\n *^nexport function isIdentifier(input: string): boolean {\n  if (input.length ==
  0) return false;\n  const /** @type {?} */ scanner = new _Scanner(input);\n  if (!isIdentifierStart(scanner.peek))
  return false;\n  scanner.advance();\n  while (scanner.peek !== chars.EOF) {\n    if (!isIdentifierPart(scanner.peek))
  return false;\n    scanner.advance();\n  }\n  return true;\n}\n\n/**\n * @param {?} code\n * @return {?} */\n *^nfunction
  isIdentifierPart(code: number): boolean {\n  return chars.isAsciiLetter(code) || chars.isDigit(code) || (code ==
  chars.$_) ||\n  (code == chars.$$);\n}\n\n/**\n * @param {?} code\n * @return {?} */\n *^nfunction
  isExponentStart(code: number): boolean {\n  return code == chars.$e || code == chars.$E;\n}\n\n/**\n * @param {?}
  code\n * @return {?} */\n *^nfunction isExponentSign(code: number): boolean {\n  return code == chars.$MINUS ||
  code == chars.$PLUS;\n}\n\n/**\n * @param {?} code\n * @return {?} */\n *^nexport function isQuote(code: number):
  boolean {\n  return code === chars.$SQ || code === chars.$DQ || code === chars.$BT;\n}\n\n/**\n * @param {?}
  code\n * @return {?} */\n *^nfunction unescape(code: number): number {\n  switch (code) {\n    case chars.$n:\n
  return chars.$LF;\n    case chars.$f:\n    return chars.$FF;\n    case chars.$r:\n    return chars.$CR;\n    case
  chars.$t:\n    return chars.$TAB;\n    case chars.$v:\n    return chars.$VTAB;\n    default:\n    return code;\n
  }\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/expression_parser/lexer.js.map
No license file was found, but licenses were detected in source scan.

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  by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport

```

```
{ParseError, ParseSourceSpan} from './parse_util';\n/**\n * An i18n error.\n */\nexport class I18nError extends\nParseError {\n  /**\n   * @param {?} span\n   * @param {?} msg\n   */\n  constructor(span: ParseSourceSpan, msg: string)\n  { super(span, msg); }\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/parse\_util.js.map

No license file was found, but licenses were detected in source scan.

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return $0 <= code && code <= $9;\n}\n\n/**\n * @param {?} code\n * @return {?} */\n */\n\nexport function isAsciiLetter(code: number): boolean {\n
return code >= $a && code <= $z || code >= $A && code <= $Z;\n}\n\n/**\n * @param {?} code\n * @return {?} */\n */\n\nexport function
isAsciiHexDigit(code: number): boolean {\n return code >= $a && code <= $f || code >= $A && code <= $F ||
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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/chars.js.map

No license file was found, but licenses were detected in source scan.

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Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nimport { Component, ViewEncapsulation } from
'@angular/core';\n\nimport { CompileAnimationEntryMetadata, CompileDirectiveMetadata,
CompileStylesheetMetadata, CompileTemplateMetadata, CompileTypeMetadata } from
'./compile_metadata';\nimport { CompilerConfig } from './config';\nimport { isBlank, isPresent, stringify } from
'./facade/lang';\nimport { CompilerInjectable } from './injectable';\nimport * as html from './ml_parser/ast';\nimport
{ HtmlParser } from './ml_parser/html_parser';\nimport { InterpolationConfig } from
'./ml_parser/interpolation_config';\nimport { ResourceLoader } from './resource_loader';\nimport { extractStyleUrls,
isStyleUrlResolvable } from './style_url_resolver';\nimport { PreparedElementType, preparseElement } from
'./template_parser/template_preparser';\nimport { UrlResolver } from './url_resolver';\nimport { SyncAsyncResult,
SyntaxError } from './util';\n\nexport interface PrenormalizedTemplateMetadata {\n  componentType: any;\n  moduleId: string;\n  template?: string;\n  templateUrl?: string;\n  styles?: string[];\n  styleUrls?: string[];\n  interpolation?: [string, string];\n  encapsulation?: ViewEncapsulation;\n  animations?:
CompileAnimationEntryMetadata[];\n}\n\n@CompilerInjectable()\nexport class DirectiveNormalizer {\n  private
_resourceLoaderCache = new Map<string, Promise<string>>();\n  /**\n   * @param {?} _resourceLoader\n   * @param
{?} _urlResolver\n   * @param {?} _htmlParser\n   * @param {?} _config\n   */\n  constructor(\n    private
_resourceLoader: ResourceLoader,\n    private _urlResolver: UrlResolver,\n    private _htmlParser: HtmlParser,\n    private
_config: CompilerConfig) {\n  }\n  /**\n   * @return {?} */\n  clearCache() { this._resourceLoaderCache.clear(); }\n  /**\n   *
@param {?} normalizedDirective\n   * @return {?} */\n  clearCacheFor(normalizedDirective:
CompileDirectiveMetadata) {\n    if (!normalizedDirective.isComponent) {\n      return;\n    }\n    this._resourceLoaderCache.delete(normalizedDirective.template.templateUrl);\n    normalizedDirective.template.externalStylesheets.forEach(\n      (stylesheet) => {\n        this._resourceLoaderCache.delete(stylesheet.moduleUrl); }\n    );\n  }\n  /**\n   * @param {?} url\n   * @return {?} */\n  private _fetch(url: string): Promise<string> {\n    let /** @type {?} */ result =
this._resourceLoaderCache.get(url);\n    if (!result) {\n      result = this._resourceLoader.get(url);\n      this._resourceLoaderCache.set(url, result);\n    }\n    return result;\n  }\n  /**\n   * @param {?} prenormData\n   * @return {?} */\n  normalizeTemplate(prenormData: PrenormalizedTemplateMetadata):\n  SyncAsyncResult<CompileTemplateMetadata> {\n    let /** @type {?} */ normalizedTemplateSync:
CompileTemplateMetadata = null;\n    let /** @type {?} */ normalizedTemplateAsync:
Promise<CompileTemplateMetadata>;\n    if (isPresent(prenormData.template)) {\n      normalizedTemplateSync =
this.normalizeTemplateSync(prenormData);\n      normalizedTemplateAsync =
Promise.resolve(normalizedTemplateSync);\n    } else if (prenormData.templateUrl) {\n      normalizedTemplateAsync = this.normalizeTemplateAsync(prenormData);\n    } else {\n      throw new
SyntaxError(\n        `No template specified for component ${stringify(prenormData.componentType)}`);\n    }\n    if (normalizedTemplateSync && normalizedTemplateSync.styleUrls.length === 0) {\n      // sync case\n      return
new SyncAsyncResult(normalizedTemplateSync);\n    } else {\n      // async case\n      return new
SyncAsyncResult(\n        null, normalizedTemplateAsync.then(\n          (normalizedTemplate) =>

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this.normalizeExternalStylesheets(normalizedTemplate));\n  }\n }\n/>\n * @param {?} prenomData\n * @return
{?}\n *^\nnormalizeTemplateSync(prenomData: PrenormalizedTemplateMetadata): CompileTemplateMetadata {\n
return this.normalizeLoadedTemplate(prenomData, prenomData.template, prenomData.moduleUrl);\n }\n/>\n *
@param {?} prenomData\n * @return {?}\n *^\nnormalizeTemplateAsync(prenomData:
PrenormalizedTemplateMetadata):\n  Promise<CompileTemplateMetadata> {\n    const /** @type {?} */
templateUrl = this._urlResolver.resolve(prenomData.moduleUrl, prenomData.templateUrl);\n    return
this._fetch(templateUrl)\n      .then((value) => this.normalizeLoadedTemplate(prenomData, value, templateUrl));\n
  }\n/>\n * @param {?} prenomData\n * @param {?} templateUrl\n * @param {?} templateAbsUrl\n * @return {?}\n
*^\nnormalizeLoadedTemplate(\n  prenomData: PrenormalizedTemplateMetadata, templateUrl: string,\n
templateAbsUrl: string): CompileTemplateMetadata {\n    const /** @type {?} */ interpolationConfig =
InterpolationConfig.fromArray(prenomData.interpolation);\n    const /** @type {?} */ rootNodesAndErrors =
this._htmlParser.parse(\n      templateUrl, stringify(prenomData.componentType), false, interpolationConfig);\n    if
(rootNodesAndErrors.errors.length > 0) {\n      const /** @type {?} */ errorString =
rootNodesAndErrors.errors.join('\n');\n      throw new SyntaxError(`Template parse errors:\n${errorString}`);\n
    }\n    const /** @type {?} */ templateMetadataStyles = this.normalizeStylesheet(new
CompileStylesheetMetadata({\n      styles: prenomData.styles,\n      styleUrls: prenomData.styleUrls,\n
moduleUrl: prenomData.moduleUrl\n    }));\n    const /** @type {?} */ visitor = new
TemplatePreparseVisitor();\n    html.visitAll(visitor, rootNodesAndErrors.rootNodes);\n    const /** @type {?} */
templateStyles = this.normalizeStylesheet(new CompileStylesheetMetadata(\n      { styles: visitor.styles, styleUrls:
visitor.styleUrls, moduleUrl: templateUrl\n    }));\n    let /** @type {?} */ encapsulation =
prenomData.encapsulation;\n    if (isBlank(encapsulation)) {\n      encapsulation =
this._config.defaultEncapsulation;\n    }\n    const /** @type {?} */ styles =
templateMetadataStyles.styles.concat(templateStyles.styles);\n    const /** @type {?} */ styleUrls =
templateMetadataStyles.styleUrls.concat(templateStyles.styleUrls);\n    if (encapsulation ===
ViewEncapsulation.Emulated && styles.length === 0 &&\n      styleUrls.length === 0) {\n      encapsulation =
ViewEncapsulation.None;\n    }\n    return new CompileTemplateMetadata({\n      encapsulation,\n      templateUrl:
templateAbsUrl, styles, styleUrls,\n      ngContentSelectors: visitor.ngContentSelectors,\n
animations: prenomData.animations,\n      interpolation: prenomData.interpolation,\n    });\n  }\n/>\n * @param {?}
templateMeta\n * @return {?}\n *^\nnormalizeExternalStylesheets(templateMeta: CompileTemplateMetadata):\n
Promise<CompileTemplateMetadata> {\n    return this._loadMissingExternalStylesheets(templateMeta.styleUrls)\n
      .then((externalStylesheets) => new CompileTemplateMetadata({\n        encapsulation:
templateMeta.encapsulation,\n        templateUrl: templateMeta.templateUrl,\n
templateMeta.templateUrl,\n        styles: templateMeta.styles,\n        styleUrls: templateMeta.styleUrls,\n
externalStylesheets: externalStylesheets,\n        ngContentSelectors: templateMeta.ngContentSelectors,\n
animations: templateMeta.animations,\n        interpolation: templateMeta.interpolation\n      }));\n  }\n/>\n * @param {?} styleUrls\n * @param {?} loadedStylesheets\n * @return {?}\n *^\nprivate
_loadMissingExternalStylesheets(\n  styleUrls: string[],\n  loadedStylesheets: Map<string,
CompileStylesheetMetadata> = new Map<string, CompileStylesheetMetadata>()):\n
Promise<CompileStylesheetMetadata[]> {\n    return Promise\n      .all(styleUrls.filter((styleUrl) =>
!loadedStylesheets.has(styleUrl))\n        .map(styleUrl => this._fetch(styleUrl).then((loadedStyle) => {\n
          const /** @type {?} */ stylesheet = this.normalizeStylesheet(\n            new
CompileStylesheetMetadata({ styles: [loadedStyle], moduleUrl: styleUrl\n          }));\n          loadedStylesheets.set(styleUrl, stylesheet);\n          return this._loadMissingExternalStylesheets(\n
            styleUrls, loadedStylesheets);\n        })))\n      .then((_) =>
Array.from(loadedStylesheets.values()));\n  }\n/>\n * @param {?} stylesheet\n * @return {?}\n
*^\nnormalizeStylesheet(stylesheet: CompileStylesheetMetadata): CompileStylesheetMetadata {\n    const /**
@type {?} */ allStyleUrls = stylesheet.styleUrls.filter(isStyleUrlResolvable)\n      .map(url =>
this._urlResolver.resolve(stylesheet.moduleUrl, url));\n    const /** @type {?} */ allStyles =

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stylesheet.styles.map(style => {\n    const /** @type {?} */ styleWithImports = extractStyleUrls(this._urlResolver,
stylesheet.moduleUrl, style);\n    allStyleUrls.push(...styleWithImports.styleUrls);\n    return
styleWithImports.style;\n    });\n\n    return new CompileStylesheetMetadata(\n        {styles: allStyles, styleUrls:
allStyleUrls, moduleUrl: stylesheet.moduleUrl});\n    }\n}\n\nfunction
DirectiveNormalizer_tsickle_Closure_declarations() {\n    /** @type {?}
*\nDirectiveNormalizer.prototype._resourceLoaderCache;\n    /** @type {?}
*\nDirectiveNormalizer.prototype._resourceLoader;\n    /** @type {?}
*\nDirectiveNormalizer.prototype._urlResolver;\n    /** @type {?} */\nDirectiveNormalizer.prototype._htmlParser;\n
/** @type {?} */\nDirectiveNormalizer.prototype._config;\n}\n\n\nclass TemplatePreparseVisitor implements
html.Visitor {\n    ngContentSelectors: string[] = [];\n    styles: string[] = [];\n    styleUrls: string[] = [];\n
ngNonBindableStackCount: number = 0;\n    /**\n     * @param {?} ast\n     * @param {?} context\n     * @return {?} }\n
*\nvisitElement(ast: html.Element, context: any): any {\n    const /** @type {?} */ preparedElement =
preparseElement(ast);\n    switch (preparedElement.type) {\n        case PreparedElementType.NG_CONTENT:\n
if (this.ngNonBindableStackCount === 0) {\n            this.ngContentSelectors.push(preparedElement.selectAttr);\n
        }\n        break;\n        case PreparedElementType.STYLE:\n            let /** @type {?} */ textContent = ";\n
ast.children.forEach(child => {\n                if (child instanceof html.Text) {\n                    textContent += child.value;\n
                }\n            });\n            this.styles.push(textContent);\n            break;\n        case PreparedElementType.STYLESHEET:\n
this.styleUrls.push(preparedElement.hrefAttr);\n            break;\n        default:\n            break;\n    }\n    if
(preparedElement.nonBindable) {\n        this.ngNonBindableStackCount++;\n    }\n    html.visitAll(this,
ast.children);\n    if (preparedElement.nonBindable) {\n        this.ngNonBindableStackCount--;\n    }\n    return
null;\n    }\n    /**\n     * @param {?} ast\n     * @param {?} context\n     * @return {?} }\n    *\nvisitComment(ast:
html.Comment, context: any): any { return null; }\n    /**\n     * @param {?} ast\n     * @param {?} context\n     * @return
{?} }\n    *\nvisitAttribute(ast: html.Attribute, context: any): any { return null; }\n    /**\n     * @param {?} ast\n     * @param
{?} context\n     * @return {?} }\n    *\nvisitText(ast: html.Text, context: any): any { return null; }\n    /**\n     * @param
{?} ast\n     * @param {?} context\n     * @return {?} }\n    *\nvisitExpansion(ast: html.Expansion, context: any): any { return
null; }\n    /**\n     * @param {?} ast\n     * @param {?} context\n     * @return {?} }\n    *\nvisitExpansionCase(ast:
html.ExpansionCase, context: any): any { return null; }\n}\n\nfunction
TemplatePreparseVisitor_tsickle_Closure_declarations() {\n    /** @type {?}
*\nTemplatePreparseVisitor.prototype.ngContentSelectors;\n    /** @type {?}
*\nTemplatePreparseVisitor.prototype.styles;\n    /** @type {?} */\nTemplatePreparseVisitor.prototype.styleUrls;\n
/** @type {?} */\nTemplatePreparseVisitor.prototype.ngNonBindableStackCount;\n}\n\n\ninterface
DecoratorInvocation {\n    type: Function;\n    args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/directive\_normalizer.js.map

No license file was found, but licenses were detected in source scan.

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```

templateAst\n * @return {?} \n *\nresetDebugInfoExpr(nodeIndex: number, templateAst: TemplateAst):
o.Expression {\n  const /** @type {?} */ res = this._updateDebugContext(new _DebugState(nodeIndex,
templateAst));\n  return res || o.NULL_EXPR;\n } \n /** \n * @param {?} nodeIndex \n * @param {?}
templateAst \n * @return {?} \n *\nresetDebugInfo(nodeIndex: number, templateAst: TemplateAst) {\n
this._newState = new _DebugState(nodeIndex, templateAst);\n } \n /** \n * @param {...?} stmts \n * @return {?} \n
*\npush(...stmts: o.Statement[]) { this.addStmts(stmts); } \n /** \n * @param {?} stmt \n * @return {?} \n
*\naddStmt(stmt: o.Statement) {\n  this._updateDebugContextIfNeeded();\n  this._bodyStatements.push(stmt);\n
} \n /** \n * @param {?} stmts \n * @return {?} \n *\naddStmts(stmts: o.Statement[]) {\n
this._updateDebugContextIfNeeded();\n  this._bodyStatements.push(...stmts);\n } \n /** \n * @return {?} \n
*\nfinish(): o.Statement[] { return this._bodyStatements; } \n /** \n * @return {?} \n *\nisEmpty(): boolean { return
this._bodyStatements.length === 0; } \n } \n\nfunction CompileMethod_tsickle_Closure_declarations() {\n /** @type
{?} */ \n CompileMethod.prototype._newState;\n /** @type {?} */ \n CompileMethod.prototype._currState;\n /**
@type {?} */ \n CompileMethod.prototype._debugEnabled;\n /** @type {?}
*\nCompileMethod.prototype._bodyStatements;\n /** @type {?}
*\nCompileMethod.prototype._view;\n } \n\ninterface DecoratorInvocation {\n  type: Function;\n  args?:
any[];\n } \n"}

```

Found in path(s):

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* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/compile_method.js.map

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* Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license

```

```

that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport {HtmlParser} from
'./ml_parser/html_parser';\nimport {DEFAULT_INTERPOLATION_CONFIG, InterpolationConfig} from
'./ml_parser/interpolation_config';\nimport {ParseTreeResult} from './ml_parser/parser';\n\nimport
{mergeTranslations} from './extractor_merger';\nimport {Serializer} from './serializers/serializer';\nimport {Xliff}
from './serializers/xliff';\nimport {Xmb} from './serializers/xmb';\nimport {Xtb} from './serializers/xtb';\nimport
{TranslationBundle} from './translation_bundle';\n\nexport class I18NHtmlParser implements HtmlParser {\n //
@Override\n getTagDefinition: any;\n/**\n * @param {?} _htmlParser\n * @param {?=} _translations\n * @param
{?=} _translationsFormat\n *\nconstructor(\nprivate _htmlParser: HtmlParser,\nprivate _translations?:
string,\nprivate _translationsFormat?: string) {\n/**\n * @param {?} source\n * @param {?} url\n * @param {?=}
parseExpansionForms\n * @param {?=} interpolationConfig\n * @return {?} *\n\nparse(\n source: string, url:
string, parseExpansionForms: boolean = false,\n interpolationConfig: InterpolationConfig =
DEFAULT_INTERPOLATION_CONFIG): ParseTreeResult {\n const /** @type {?} */ parseResult =\n
this._htmlParser.parse(source, url, parseExpansionForms, interpolationConfig);\n\n if (!this._translations ||
this._translations === "") {\n // Do not enable i18n when no translation bundle is provided\n return
parseResult;\n }\n\n // TODO(vicb): add support for implicit tags / attributes\n\n if (parseResult.errors.length)
{\n return new ParseTreeResult(parseResult.rootNodes, parseResult.errors);\n }\n\n const /** @type {?} */
serializer = this._createSerializer();\n const /** @type {?} */ translationBundle =
TranslationBundle.load(this._translations, url, serializer);\n\n return mergeTranslations(parseResult.rootNodes,
translationBundle, interpolationConfig, [], {});\n }\n/**\n * @return {?} *\nprivate _createSerializer(): Serializer
{\n const /** @type {?} */ format = (this._translationsFormat || 'xlf').toLowerCase();\n\n switch (format) {\n
case 'xmb':\n return new Xmb();\n case 'xtb':\n return new Xtb();\n case 'xliff':\n case 'xlf':\n
default:\n return new Xliff();\n }\n }\n\nfunction I18NHtmlParser_tsickle_Closure_declarations() {\n /**
@type {?} */\nI18NHtmlParser.prototype.getTagDefinition;\n/** @type {?}
*\nI18NHtmlParser.prototype._htmlParser;\n/** @type {?} */\nI18NHtmlParser.prototype._translations;\n/**
@type {?} */\nI18NHtmlParser.prototype._translationsFormat;\n}\n\ninterface DecoratorInvocation {\n type:
Function;\n args?: any[];\n}\n"}

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/i18n\_html\_parser.js.map

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,CAAC,CAAC,CAAC,OAAO,CAAC,aAAa,CAAC,CAAC,CAAC;aAC7E,UAAU,EAAE,CAAC,CAAC;QAEvB,UAAU,CAAC,IAAI,CACX,iCAAiC,CAAC,GAAG,CAAC,IAAI,CAAC,aAAa,CAAC,GAAG,CAAC,4BAA4B,CAAC,CAAC;aACtF,UAAU,EAAE,CAAC,CAAC;QAEvB,UAAU,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,MAAM,CACxB,iCAAiC,CAAC,MAAM,CAAC,CAAC,CAAC,SAAS,CAAC,EACrD,CAAC,iCAAiC,CAAC,GAAG,CAAC,4BAA4B,CAAC,CAAC,MAAM,EAAE,CAAC,CAAC,CAAC,CAAC;QAErF,UAAU,CAAC,IAAI,CACX,+BAA+B,CAAC,GAAG,CAAC,IAAI,CAAC,aAAa,CAAC,GAAG,CAAC,yBAAyB,CAAC,CAAC;aACjF,UAAU,EAAE,CAAC,CAAC;QAEvB,UAAU,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,MAAM,CACxB,+BAA+B,CAAC,MAAM,CAAC,CAAC,CAAC,SAAS,CAAC,EACnD,CAAC,+BAA+B,CAAC,GAAG,CAAC,4BAA4B,CAAC,CAAC,MAAM,EAAE,CAAC,CAAC,CAAC,CAAC;QAErF,IAAM,gBAAgB,CAAC,gBAAgB,GAAG,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,YAAy,CAAC,CAAC,CAAC;QAErG,GAAG,CAAC,gBAAgB,CAAC,OAAO,CAAC,UAAA,QAAQ,IAAI,OAAA,UAAU,CAAC,IAAI,CAAC,QAAQ,CAAC,KAAK,CAAC,KAAI,EAAE,OAAO,CAAC,CAAC,EAA9C,CAA8C,CAAC,CAAC;QAEzF,wEAAwE;QACxE,uDAuD;QACvD,UAAU,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,MAAM,CACxB,qBAAqB,CAAC,MAAM,CAAC,CAAC,CAAC,SAAS,CAAC,EACzC,CAAC,qBAAqB;iBACHB,GAAG,CAAC,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,mBAAmB,CAAC,CAAC,CAAC,WAAW,CAAC,EAAE,CAAC,CAAC;iBACpF,MAAM,EAAE,CAAC,CAAC,CAAC,CAAC;QAEtB,2DAA2D;QAC3D,2DAA2D;QAC3D,wCAAwC;QACxC,UAAU,CAAC,IAAI,CACX,qBAAqB;aACHB,UAAU,CACP,QAAQ,EACR,CAAC,CAAC;iBACI,EAAE,CAAC,EAAE,EACF;gBACE,qBAAqB,CAAC,UAAU,CAAC,SAAS,EAAE,EAAE,CAAC,CAAC,MAAM,EAAE;gBACxD,gBAAgB;qBACX,MAAM,CAAC;oBACN,8BAA8B,EAAE,+BAA+B;oBAC/D,CAAC,CAAC,UAAU,CACP,gBAAgB,CAAC,WAAW,CAAC,2BAA2B,CAAC,CAAC;yBAC1D,MAAM,CACH;wBACE,iCAAiC;wBACjC,+BAA+B;qBACHC,CAAC;iBACX,CAAC;qBACD,MAAM,EAAE;aACd,CAAC,CAAC,CAAC;aACHB,MAAM,EAAE,CAAC,CAAC;QAErB,UAAU,CAAC,IAAI,CAAC,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,uBAAuB,CAAC,CAAC;aAC9D,WAAW,CAAC,CAAC,2BAA2B,CAAC,CAAC;aAC1C,UAAU,CAAC,SAAS,EAAE,EAAE,CAAC;aACzB,MAAM,EAAE,CAAC,CAAC;QAE/B,kEAAkE;QACIE,mEAAmE;QACnE,yCAAyC;QACzC,UAAU,CAAC,IAAI,CAAC,gBAAgB;aACX,MAAM,CAAC;YACN,8BAA8B,EAAE,+BAA+B;YAC/D,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,WAAW,CAAC,CAAC;iBACID,MAAM,CAAC,CAAC,iCAAiC,CAAC,CAAC;SACjD,CAAC;aACD,MAAM,EAAE,CAAC,CAAC;QAE/B,UAAU,CAAC,IAAI,CAAC,+BAA+B;aAC1B,UAAU,CACP,gBAAgB,EACHB;YACE,8BAA8B,EAAE,CAAC,CAAC,OAAO,CAAC,IAAI,CAAC,aAAa,CAAC;YAC7D,qBAAqB;SACtB,CAAC;aACL,MAAM,EAAE,CAAC,CAAC;QAE/B,UAAU,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,eAAe,CACjC,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,mBAAmB,CAAC,CAAC,CAAC,WAAW,CAAC;YAC1E,qBAAqB,EAAE,4BAA4B,EAAE,yBAAyB;YAC9E,mBAAmB;SACpB,CAAC,CAAC,CAAC,CAAC;QAEt,MAAM,CAAC,CAAC,CAAC,EAAE,CACP;YACE,IAAI,CAAC,CAAC,OAAO,CACT,2BAA2B,CAAC,IAAI,EACHC,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,OAAO,CAAC,EAAE,CAAC,CAAC,CAAC,YAAy,CAAC,CAAC,CAAC;YAC1E,IAAI,CAAC,CAAC,OAAO,CAAC,8BAA8B,CAAC,IAAI,EAAE,CAAC,CAAC,YAAy,CAAC;YACIE,IAAI,CAAC,CAAC,OAAO,CAAC,4BAA4B,CAAC,IAAI,EAAE,CAAC,CAAC,YAAy,CAAC;YACHe,IAAI,CAAC,CAAC,OAAO,CAAC,yBAAyB,CAAC,IAAI,EAAE,CAAC,CAAC,YAAy,CAAC;SAC9D,EACD,UAAU,EAAE,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,mBAAmB,CAAC,CAAC,CAAC,CAAC;IACnF,CAAC;IACH;;;OAGG;IACH,iCAAK,GAAL,UAM,GAiB;QACnB,IAAM,gBAAgB,CAAC,OAAO,GAAG,IAAI,wBAAwB,EAAE,CAAC;QACHe,IAAM,gBAAgB,CAAC,WAAW,GAAG,GAAG,CAAC,KAAK,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC,UAAU,CAAC,IAAI,CAAC,UAAU,CAAC,CAAC;QAC1F,IAAM,gBAAgB,CAAC,UAAU,GAAG,CAAC,CAAC,QAAQ,CAAC,IAAI,CAAC,UAAU,CAAC,CAAC;QAEhE,IAAM,gBAAgB,CAAC,SAAS,GAAU,EAAE,CAAC;QAC7C,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,QAAQ,CAAC,MAAM,CAAC,CAAC,OAAO,CAAC,UAAA,SAAS;YACpD,IAAM,gBAAgB,CAAC,KAAK,GAAG,OAAO,CAAC,QAAQ,CAAC,MAAM,CAAC,SAAS,CAAC,CAAC;YACIE,IAAI,gBAAgB,CAAC,aAAa,GAAG,UAAU,CAAC;YACHd,EAAE,CAAC,CAAC,SAAS,CAAC,KAAK,CAAC,CAAC,CAAC,CAAC;gBACrB,IAAM,gBAAgB,CAAC,UAAQ,GAAU,EAAE,CAAC;gBAC5C,MAAM,CAAC,IAAI,CAAC,KAAK,CAAC,CAAC,OAAO,CAAC,UAAA,GAAG,IAAM,UAAQ,CAAC,IAAI,CAAC,CAAC,GAAG,EAAE,CAAC,CAAC,OAAO,CAAC,KAAK,CAAC,GAAG,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;g



BACpF,aAAa,GAAG,CAAC,CAAC,UAAU,CAAC,UAAQ,CAAC,CAAC;YACzC,CAAC;YACD,SAAS,CAAC,IAAI,CAAC,CAAC,SAAS,EAAE,aAAa,CAAC,CAAC,CAAC;QAC7C,CAAC,CAAC,CAAC;QAEH,IAAM,gBAAgB,CAAC,qBAAqB,GAAG,IAAI,CAAC,aAAa,CAAC,GAAG,CAAC,CAAC,CAAC,UAAU,CAAC,SAAS,CAAC,CAAC,CAAC,UAAU,EAAE,CAAC;QAC5G,IAAM,gBAAgB,CAAC,UAAU,GAakB,CAAC,qBAAqB,EAAE,WAaw,CAAC,CAAC;QAExF,MAAM,CAAC,IAAI,2BAA2B,CAAC,IAAI,CAAC,aAAa,EAAE,UAAU,EAAE,UAAU,CAAC,CAAC;IACrF,CAAC;IACH,wBAAC;AAAD,CAAC,AA7UD,IA6UC;AAED;IACC,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,UAAU,CAAC;IACtC,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,iBAAiB,CAAC;IAC7C,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,aAAa,CAAC;IACzC,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,aAAa,CAAC;AAC1C,CAAC;AAGD;IAAA;QACE,aAAQ,GAAG,IAAI,yBAAyB,EAAE,CAAC;QAC3C,wBAAmB,GAAqB,IAAI,CAAC;QAC7C,8BAAyB,GAAG,KAAK,CAAC;QAC1C,gCAA2B,GAAG,KAAK,CAAC;QACpC,wBAAmB,GAAG,CAAC,CAAC;IAC1B,CAAC;IAAD,+BAAC;AAAD,CAAC,AAND,IAMC;AAED;IACC,gBAAgB;IACjB,wBAAwB,CAAC,SAAS,CAAC,QAAQ,CAAC;IAC3C,gBAAgB;IACjB,wBAAwB,CAAC,SAAS,CAAC,mBAAmB,CAAC;IACtD,gBAAgB;IACjB,wBAAwB,CAAC,SAAS,CAAC,yBAAyB,CAAC;IAC5D,gBAAgB;IACjB,wBAAwB,CAAC,SAAS,CAAC,2BAA2B,CAAC;IAC9D,gBAAgB;IACjB,wBAAwB,CAAC,SAAS,CAAC,mBAAmB,CAAC;AACvD,CAAC;AAGD;IAAA;QACQ,YAAO,GAAuD,EAAE,CAAC;IAGbZE,CAAC;IAZD,sBAAl,6CAAM;QAHV;;WAEG;aACH,cAAe,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC,CAAC;;;OAAA;IACrC;;;OAIG;IACH,iDAAa,GAAb,UAAc,IAAY,EAAE,KAA+C;QAA/C,qBAA+C,GAA/C,YAA+C;QACvE,IAAM,gBAAgB,CAAC,aAAa,GAAG,IAAI,CAAC,OAAO,CAAC,IAAI,CAAC,CAAC;QAC1D,EAAE,CAAC,CAAC,CAAC,aAAa,CAAC,CAAC,CAAC;YACnB,IAAI,CAAC,OAAO,CAAC,IAAI,CAAC,GAAG,KAAK,CAAC;QAC7B,CAAC;IACH,CAAC;IACH,gCAAC;AAAD,CAAC,AAjBD,IAiBC;AAED;IACC,gBAAgB;IACjB,yBAAyB,CAAC,SAAS,CAAC,OAAO,CAAC;AAC5C,CAAC;AAED;;;GAIG;AACH,sCAAsC,KAAmB,EAAE,cAAsB;IAC/E,IAAM,gBAAgB,CAAC,iBAAiB,GAAG,CAAC,CAAC,OAAO,CAAC,WAAW,CAAC,CAAC;IACIE,MAAM,CAAC,CAAC,cAAc,CAAC,CAAC,CAAC;QACvB,KAAK,WAAW;YACd,MAAM,CAAC,KAAK,CAAC,MAAM,CAAC,iBAAiB,CAAC,CAAC;QAEzC,KAAK,SAAS;YACZ,MAAM,CAAC,CAAC,CAAC,OAAO,CAAC,IAAI,CAAC,CAAC;QAEzB;YACE,MAAM,CAAC,KAAK,CAAC,MAAM,CAAC,CAAC,CAAC,OAAO,CAAC,cAAc,CAAC,CAAC,CAAC;IACnD,CAAC;AACH,CAAC;AACD;;;GAGG;AACH,gCAAgC,IAakB;IACChD,+DAA+D;IAC/D,kEAAkE;IACIE,EAAE,CAAC,CAAC,IAAI,YAAY,gBAAgB,IAAI,IAAI,CAAC,QAAQ,GAAG,CAAC,IAAI,IAAI,CAAC,SAAS,CAAC,MAAM,IAAI,CAAC,CAAC,CAAC,CAAC;QACxF,IAAM,gBAAgB,CAAC,OAAO,GAAG,eAAe,CAAC,IAAI,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;QACvE,IAAM,gBAAgB,CAAC,OAAO,GAAG,eAAe,CAAC,IAAI,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;QACvE,MAAM,CAAC,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC,MAAM,KAAK,CAAC,IAAI,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC,MAAM,KAAK,CAAC,CAAC;IACf,CAAC;IACD,MAAM,CAAC,KAAK,CAAC;AACf,CAAC;AACD;;;GAGG;AACH,yBAAyB,GAAQ;IAC/B,MAAM,CAAC,GAAG,CAAC,MAAM,CAAC,MAAM,CAAC;AAC3B,CAAC", "sourcesContent": ["/\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\nimport { isPresent } from\n './facade/lang';\nimport { Identifiers, createIdentifier } from './identifiers';\nimport \* as o from\n './output/output\_ast';\nimport { ANY\_STATE, DEFAULT\_STATE, EMPTY\_STATE } from\n './private\_import\_core';\n\nimport { AnimationAst, AnimationAstVisitor, AnimationEntryAst, AnimationGroupAst,\n AnimationKeyframeAst, AnimationSequenceAst, AnimationStateDeclarationAst, AnimationStateTransitionAst,\n AnimationStepAst, AnimationStylesAst } from './animation\_ast';\n\nexport class AnimationEntryCompileResult\n {\n /\*\*\n \* @param {?} name\n \* @param {?} statements\n \* @param {?} fnExp\n \*\n constructor(public name:\n string,\n public statements: o.Statement[],\n public fnExp: o.Expression) {\n }\n\n function\n AnimationEntryCompileResult\_tsickle\_Closure\_declarations() {\n /\*\* @type {?} \*/\n\n AnimationEntryCompileResult.prototype.name;\n /\*\* @type {?} \*/\n\n AnimationEntryCompileResult.prototype.statements;\n /\*\* @type {?} \*/\n\n AnimationEntryCompileResult.prototype.fnExp;\n }\n\n export class AnimationCompiler {\n /\*\*\n \* @param\n {?} factoryNamePrefix\n \* @param {?} parsedAnimations\n \* @return {?} \*/\n\n compile(factoryNamePrefix:

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string, parsedAnimations: AnimationEntryAst[]);\n  AnimationEntryCompileResult[] {\n  return
parsedAnimations.map(entry => {\n    const /** @type {?} */ factoryName =
`${factoryNamePrefix}_${entry.name}`;\n    const /** @type {?} */ visitor = new _AnimationBuilder(entry.name,
factoryName);\n    return visitor.build(entry);\n  });\n}\n\n\nconst /** @type {?} */
_ANIMATION_FACTORY_ELEMENT_VAR = o.variable('element');\nconst /** @type {?} */
_ANIMATION_DEFAULT_STATE_VAR = o.variable('defaultStateStyles');\nconst /** @type {?} */
_ANIMATION_FACTORY_VIEW_VAR = o.variable('view');\nconst /** @type {?} */
_ANIMATION_FACTORY_VIEW_CONTEXT =
_ANIMATION_FACTORY_VIEW_VAR.prop('animationContext');\nconst /** @type {?} */
_ANIMATION_FACTORY_RENDERER_VAR =
_ANIMATION_FACTORY_VIEW_VAR.prop('renderer');\nconst /** @type {?} */
_ANIMATION_CURRENT_STATE_VAR = o.variable('currentState');\nconst /** @type {?} */
_ANIMATION_NEXT_STATE_VAR = o.variable('nextState');\nconst /** @type {?} */
_ANIMATION_PLAYER_VAR = o.variable('player');\nconst /** @type {?} */ _ANIMATION_TIME_VAR =
o.variable('totalTime');\nconst /** @type {?} */ _ANIMATION_START_STATE_STYLES_VAR =
o.variable('startStateStyles');\nconst /** @type {?} */ _ANIMATION_END_STATE_STYLES_VAR =
o.variable('endStateStyles');\nconst /** @type {?} */ _ANIMATION_COLLECTED_STYLES =
o.variable('collectedStyles');\nconst /** @type {?} */ _PREVIOUS_ANIMATION_PLAYERS =
o.variable('previousPlayers');\nconst /** @type {?} */ _EMPTY_MAP = o.literalMap({});\nconst /** @type {?} */
_EMPTY_ARRAY = o.literalArr([]);\n\nclass _AnimationBuilder implements AnimationAstVisitor {\nprivate
_fnVarName: string;\nprivate _statesMapVarName: string;\nprivate _statesMapVar: any;\n/**\n * @param {?}
animationName\n * @param {?} factoryName\n */\nconstructor(public animationName: string, factoryName:
string) {\n  this._fnVarName = factoryName + '_factory';\n  this._statesMapVarName = factoryName + '_states';\n
  this._statesMapVar = o.variable(this._statesMapVarName);\n  }\n/**\n * @param {?} ast\n * @param {?}
context\n * @return {?} */\nvisitAnimationStyles(ast: AnimationStylesAst, context: _AnimationBuilderContext):
o.Expression {\n  const /** @type {?} */ stylesArr: any[] = [];\n  if (context.isExpectingFirstStyleStep) {\n
stylesArr.push(_ANIMATION_START_STATE_STYLES_VAR);\n  context.isExpectingFirstStyleStep =
false;\n  }\n  ast.styles.forEach(entry => {\n    const /** @type {?} */ entries =\n
Object.keys(entry).map((key): [string, o.Expression] => [key, o.literal(entry[key])]);\n
stylesArr.push(o.literalMap(entries));\n  });\n  return
o.importExpr(createIdentifier(Identifiers.AnimationStyles)).instantiate([\n
o.importExpr(createIdentifier(Identifiers.collectAndResolveStyles)).callFn([\n
_ANIMATION_COLLECTED_STYLES, o.literalArr(stylesArr)\n  ])\n  ]);\n  }\n/**\n * @param {?} ast\n *
@param {?} context\n * @return {?} */\nvisitAnimationKeyframe(ast: AnimationKeyframeAst, context:
_AnimationBuilderContext):\n  o.Expression {\n  return
o.importExpr(createIdentifier(Identifiers.AnimationKeyframe)).instantiate([\n  o.literal(ast.offset),
ast.styles.visit(this, context)\n  ]);\n  }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\nvisitAnimationStep(ast: AnimationStepAst, context: _AnimationBuilderContext): o.Expression {\n  if
(context.endStateAnimateStep === ast) {\n    return this._visitEndStateAnimation(ast, context);\n  }\n  const
/** @type {?} */ startingStylesExpr = ast.startingStyles.visit(this, context);\n  const /** @type {?} */
keyframeExpressions =\n    ast.keyframes.map(keyframeEntry => keyframeEntry.visit(this, context));\n  return
this._callAnimateMethod(\n    ast, startingStylesExpr, o.literalArr(keyframeExpressions), context);\n  }\n/**\n *
@param {?} ast\n * @param {?} context\n * @return {?} */\nvisitEndStateAnimation(ast: AnimationStepAst,
context: _AnimationBuilderContext): o.Expression {\n  const /** @type {?} */ startingStylesExpr =
ast.startingStyles.visit(this, context);\n  const /** @type {?} */ keyframeExpressions =
ast.keyframes.map(keyframe => keyframe.visit(this, context));\n  const /** @type {?} */ keyframesExpr =\n
o.importExpr(createIdentifier(Identifiers.balanceAnimationKeyframes)).callFn([\n
_ANIMATION_COLLECTED_STYLES, _ANIMATION_END_STATE_STYLES_VAR,\n

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o.literalArr(keyframeExpressions)\n    ]);\n\n    return this._callAnimateMethod(ast, startingStylesExpr,
keyframesExpr, context);\n }n/**\n * @param {?} ast\n * @param {?} startingStylesExpr\n * @param {?}
keyframesExpr\n * @param {?} context\n * @return {?}\n */\n _callAnimateMethod(\n    ast: AnimationStepAst,
startingStylesExpr: any, keyframesExpr: any,\n    context: _AnimationBuilderContext) {\n    let /** @type {?} */
previousStylesValue: o.Expression = _EMPTY_ARRAY;\n    if (context.isExpectingFirstAnimateStep) {\n
previousStylesValue = _PREVIOUS_ANIMATION_PLAYERS;\n    context.isExpectingFirstAnimateStep =
false;\n    }\n    context.totalTransitionTime += ast.duration + ast.delay;\n    return
_animation_factory_renderer_var.callMethod('animate', [\n
_animation_factory_element_var, startingStylesExpr, keyframesExpr, o.literal(ast.duration),\n
o.literal(ast.delay), o.literal(ast.easing), previousStylesValue\n    ]);\n }n/**\n * @param {?} ast\n * @param {?}
context\n * @return {?}\n */\n _nvisitAnimationSequence(ast: AnimationSequenceAst, context:
_animation_builder_context):\n    o.Expression {\n    const /** @type {?} */ playerExprs = ast.steps.map(step =>
step.visit(this, context));\n    return
o.importExpr(createIdentifier(Identifiers.AnimationSequencePlayer)).instantiate([\n    o.literalArr(playerExprs)\n
]);\n }n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n _nvisitAnimationGroup(ast:
AnimationGroupAst, context: _AnimationBuilderContext): o.Expression {\n    const /** @type {?} */ playerExprs
= ast.steps.map(step => step.visit(this, context));\n    return
o.importExpr(createIdentifier(Identifiers.AnimationGroupPlayer)).instantiate([\n    o.literalArr(playerExprs)\n
]);\n }n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n _nvisitAnimationStateDeclaration(\n
ast: AnimationStateDeclarationAst, context: _AnimationBuilderContext): void {\n    const /** @type {?} */
flatStyles: {[key: string]: string | number} = {};\n    _getStyleArray(ast).forEach(\n        entry => {
Object.keys(entry).forEach(key => { flatStyles[key] = entry[key]; });\n    });\n    context.stateMap.registerState(ast.stateName, flatStyles);\n }n/**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n */\n _nvisitAnimationStateTransition(\n    ast: AnimationStateTransitionAst, context:
_animation_builder_context): any {\n    const /** @type {?} */ steps = ast.animation.steps;\n    const /** @type {?}
*/ lastStep = steps[steps.length - 1];\n    if (!_isEndStateAnimateStep(lastStep)) {\n    context.endStateAnimateStep
= /** @type {?} */ (<AnimationStepAst>lastStep);\n    }\n    \n    context.totalTransitionTime = 0;\n
context.isExpectingFirstStyleStep = true;\n    context.isExpectingFirstAnimateStep = true;\n    \n    const /** @type
{?} */ stateChangePreconditions: o.Expression[] = [];\n    ast.stateChanges.forEach(stateChange => {\n
stateChangePreconditions.push(\n
_compareToAnimationStateExpr(_ANIMATION_CURRENT_STATE_VAR, stateChange.fromState)\n
.and(_compareToAnimationStateExpr(_ANIMATION_NEXT_STATE_VAR, stateChange.toState));\n    \n    if
(stateChange.fromState != ANY_STATE) {\n    context.stateMap.registerState(stateChange.fromState);\n
}\n    \n    if (stateChange.toState != ANY_STATE) {\n    context.stateMap.registerState(stateChange.toState);\n
}\n    });\n    \n    const /** @type {?} */ animationPlayerExpr = ast.animation.visit(this, context);\n    \n    const /**
@type {?} */ reducedStateChangesPrecondition = stateChangePreconditions.reduce((a, b) => a.or(b));\n    \n    const /**
@type {?} */ precondition =\n
_animation_player_var.equals(o.NULL_EXPR).and(reducedStateChangesPrecondition);\n    \n    const /**
@type {?} */ animationStmt = _animation_player_var.set(animationPlayerExpr).toStmt();\n    \n    const /**
@type {?} */ totalTimeStmt = _animation_time_var.set(o.literal(context.totalTransitionTime)).toStmt();\n    \n
return new o.IfStmt(precondition, [animationStmt, totalTimeStmt]);\n }n/**\n * @param {?} ast\n * @param {?}
context\n * @return {?}\n */\n _nvisitAnimationEntry(ast: AnimationEntryAst, context: _AnimationBuilderContext):
any {\n    // visit each of the declarations first to build the context state map\n    ast.stateDeclarations.forEach(def =>
def.visit(this, context);\n    \n    // this should always be defined even if the user overrides it\n
context.stateMap.registerState(DEFAULT_STATE, {});\n    \n    const /** @type {?} */ statements: o.Statement[] =
[];\n    statements.push(_previous_animation_players\n
.set(_animation_factory_view_context.callMethod(\n
_animation_factory_element_var,\n

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_animation_next_state_var.equals(o.literal(EMPTY_STATE))\n
.conditional(o.NULL_EXPR, o.literal(this.animationName))\n
.toDeclStmt());\n\n
statements.push(_animation_collected_styles.set(_EMPTY_MAP).toDeclStmt());\n
statements.push(_animation_player_var.set(o.NULL_EXPR).toDeclStmt());\n
statements.push(_animation_time_var.set(o.literal(0)).toDeclStmt());\n\n
statements.push(\n
_animation_default_state_var.set(this._statesMapVar.key(o.literal(DEFAULT_STATE))\n
.toDeclStmt());\n\n
statements.push(\n
_animation_start_state_styles_var.set(this._statesMapVar.key(_ANIMATION_CURRENT_STATE_VAR))\n
.toDeclStmt());\n\n
statements.push(new o.IfStmt(\n
_animation_start_state_styles_var.equals(o.NULL_EXPR),\n
[_animation_start_state_styles_var.set(_animation_default_state_var).toStmt()]);\n\n
statements.push(\n
_animation_end_state_styles_var.set(this._statesMapVar.key(_ANIMATION_NEXT_STATE_VAR))\n
)\n
.toDeclStmt());\n\n
statements.push(new o.IfStmt(\n
_animation_end_state_styles_var.equals(o.NULL_EXPR),\n
[_animation_end_state_styles_var.set(_animation_default_state_var).toStmt()]);\n\n
const /** @type {?} */ render_styles_fn = o.importExpr(createIdentifier(Identifiers.renderStyles));\n\n
ast.stateTransitions.forEach(transAst => statements.push(transAst.visit(this, context));\n\n
// this check ensures that the animation factory always returns a player\n
// so that the onDone callback can be used for tracking\n
statements.push(new o.IfStmt(\n
_animation_player_var.equals(o.NULL_EXPR),\n
[_animation_player_var\n
.set(o.importExpr(createIdentifier(Identifiers.NoOpAnimationPlayer)).instantiate([]))\n
.toStmt()]);\n\n
// once complete we want to apply the styles on the element\n
// since the destination state's values should persist once\n
// the animation sequence has completed.\n
statements.push(\n
_animation_player_var\n
.callMethod(\n
'onDone',\n
[o\n
.fn([],\n
[\n
_animation_player_var.callMethod('destroy', []).toStmt(),\n
render_styles_fn\n
.callFn([\n
_animation_factory_element_var,\n
_animation_factory_renderer_var,\n
o.importExpr(\n
createIdentifier(Identifiers.prepareFinalAnimationStyles))\n
.callFn([\n
[\n
_animation_start_state_styles_var,\n
_animation_end_state_styles_var\n
])\n
])\n
.toStmt()\n
])\n
.toStmt());\n\n
statements.push(o.importExpr(createIdentifier(Identifiers.AnimationSequencePlayer))\n
.instantiate([_previous_animation_players])\n
.callMethod('destroy', [])\n
.toStmt());\n\n
// before we start any animation we want to clear out the starting\n
// styles from the element's style property (since they were placed\n
// there at the end of the last animation\n
statements.push(render_styles_fn\n
.callFn([\n
_animation_factory_element_var, _animation_factory_renderer_var,\n
o.importExpr(createIdentifier(Identifiers.clearStyles))\n
.callFn(_animation_start_state_styles_var)]\n
])\n
.toStmt());\n\n
statements.push(_animation_factory_view_context\n
.callMethod(\n
'queueAnimation',\n
[\n
_animation_factory_element_var,\n
o.literal(this.animationName),\n
_animation_player_var\n
])\n
.toStmt());\n\n
statements.push(new o.ReturnStatement(\n
o.importExpr(createIdentifier(Identifiers.AnimationTransition)).instantiate([\n
_animation_player_var, _animation_current_state_var,\n
_animation_next_state_var,\n
_animation_time_var\n
]));\n\n
return o.fn([\n

```



Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/animation/animation\_compiler.js.map

No license file was found, but licenses were detected in source scan.

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```

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(isPresent(stmt.parent)) {\n    ctx.print(` ${stmt.name}.prototype = Object.create(`);\n
stmt.parent.visitExpression(this, ctx);\n    ctx.println(`.prototype);`);\n } \n stmt.getters.forEach((getter) =>
this._visitClassGetter(stmt, getter, ctx);\n    stmt.methods.forEach((method) => this._visitClassMethod(stmt,
method, ctx);\n    ctx.popClass();\n    return null;\n } \n /** \n * @param {?} stmt \n * @param {?} ctx \n * @return
{?} \n * \n private _visitClassConstructor(stmt: o.ClassStmt, ctx: EmitterVisitorContext) {\n    ctx.print(` function
${stmt.name}(`);\n    if (isPresent(stmt.constructorMethod)) {\n
this._visitParams(stmt.constructorMethod.params, ctx);\n    } \n    ctx.println(` `);\n    ctx.incIndent();\n    if
(isPresent(stmt.constructorMethod)) {\n    if (stmt.constructorMethod.body.length > 0) {\n        ctx.println(` var self
= this;`);\n        this.visitAllStatements(stmt.constructorMethod.body, ctx);\n    } \n    } \n    ctx.decIndent();\n
ctx.println(` `);\n } \n /** \n * @param {?} stmt \n * @param {?} getter \n * @param {?} ctx \n * @return {?} \n
* \n private _visitClassGetter(stmt: o.ClassStmt, getter: o.ClassGetter, ctx: EmitterVisitorContext) {\n
ctx.println(\n    `Object.defineProperty(${stmt.name}.prototype, `${getter.name}`, { get: function() `);\n
ctx.incIndent();\n    if (getter.body.length > 0) {\n        ctx.println(` var self = this;`);\n
this.visitAllStatements(getter.body, ctx);\n    } \n    ctx.decIndent();\n    ctx.println(` `);\n } \n /** \n * @param {?}
stmt \n * @param {?} method \n * @param {?} ctx \n * @return {?} \n * \n private _visitClassMethod(stmt:
o.ClassStmt, method: o.ClassMethod, ctx: EmitterVisitorContext) {\n
ctx.print(` ${stmt.name}.prototype.${method.name} = function(`);\n    this._visitParams(method.params, ctx);\n
ctx.println(` `);\n    ctx.incIndent();\n    if (method.body.length > 0) {\n        ctx.println(` var self = this;`);\n
this.visitAllStatements(method.body, ctx);\n    } \n    ctx.decIndent();\n    ctx.println(` `);\n } \n /** \n * @param {?}
ast \n * @param {?} ctx \n * @return {?} \n * \n visitReadVarExpr(ast: o.ReadVarExpr, ctx: EmitterVisitorContext):
string {\n    if (ast.builtin === o.BuiltinVar.This) {\n        ctx.print(`self`);\n    } else if (ast.builtin ===
o.BuiltinVar.Super) {\n        throw new Error(\n            `super` needs to be handled at a parent ast node, not at the
variable level!`);\n    } else {\n        super.visitReadVarExpr(ast, ctx);\n    } \n    return null;\n } \n /** \n * @param {?}
stmt \n * @param {?} ctx \n * @return {?} \n * \n visitDeclareVarStmt(stmt: o.DeclareVarStmt, ctx:
EmitterVisitorContext): any {\n    ctx.print(` var ${stmt.name} = `);\n    stmt.value.visitExpression(this, ctx);\n
ctx.println(` `);\n    return null;\n } \n /** \n * @param {?} ast \n * @param {?} ctx \n * @return {?} \n
* \n visitCastExpr(ast: o.CastExpr, ctx: EmitterVisitorContext): any {\n    ast.value.visitExpression(this, ctx);\n
return null;\n } \n /** \n * @param {?} expr \n * @param {?} ctx \n * @return {?} \n
* \n visitInvokeFunctionExpr(expr: o.InvokeFunctionExpr, ctx: EmitterVisitorContext): string {\n    const /** @type
{?} */ fnExpr = expr.fn;\n    if (fnExpr instanceof o.ReadVarExpr && fnExpr.builtin === o.BuiltinVar.Super) {\n
ctx.currentClass.parent.visitExpression(this, ctx);\n    ctx.print(`.call(this`);\n    if (expr.args.length > 0) {\n
ctx.print(`, `);\n        this.visitAllExpressions(expr.args, ctx, `,`);\n    } \n    ctx.println(` `);\n    } else {\n
super.visitInvokeFunctionExpr(expr, ctx);\n    } \n    return null;\n } \n /** \n * @param {?} ast \n * @param {?} ctx \n
* @return {?} \n * \n visitFunctionExpr(ast: o.FunctionExpr, ctx: EmitterVisitorContext): any {\n
ctx.print(` function(`);\n    this._visitParams(ast.params, ctx);\n    ctx.println(` `);\n    ctx.incIndent();\n
this.visitAllStatements(ast.statements, ctx);\n    ctx.decIndent();\n    ctx.println(` `);\n    return null;\n } \n /** \n *
@param {?} stmt \n * @param {?} ctx \n * @return {?} \n * \n visitDeclareFunctionStmt(stmt:
o.DeclareFunctionStmt, ctx: EmitterVisitorContext): any {\n    ctx.print(` function ${stmt.name}(`);\n
this._visitParams(stmt.params, ctx);\n    ctx.println(` `);\n    ctx.incIndent();\n
this.visitAllStatements(stmt.statements, ctx);\n    ctx.decIndent();\n    ctx.println(` `);\n    return null;\n } \n /** \n *
@param {?} stmt \n * @param {?} ctx \n * @return {?} \n * \n visitTryCatchStmt(stmt: o.TryCatchStmt, ctx:
EmitterVisitorContext): any {\n    ctx.println(` try `);\n    ctx.incIndent();\n
this.visitAllStatements(stmt.bodyStmts, ctx);\n    ctx.decIndent();\n    ctx.println(` } catch
(${CATCH_ERROR_VAR.name}) `);\n    ctx.incIndent();\n    const /** @type {?} */ catchStmts = \n        [ /**
@param {?} */ ((<o.Statement>CATCH_STACK_VAR.set(CATCH_ERROR_VAR.prop(`stack`)).toDeclStmt(null,
[\n            o.StmtModifier.Final\n        ])))] .concat(stmt.catchStmts);\n    this.visitAllStatements(catchStmts, ctx);\n
ctx.decIndent();\n    ctx.println(` `);\n    return null;\n } \n /** \n * @param {?} params \n * @param {?} ctx \n
* @return {?} \n * \n private _visitParams(params: o.FnParam[], ctx: EmitterVisitorContext): void {\n

```



```
this.visitAllObjects(param => ctx.print(param.name), params, ctx, ',');\n }\n/**\n * @param {?} method\n * @return {?}\n */\ngetBuiltinMethodName(method: o.BuiltinMethod): string {\n let /** @type {?} */ name:\n string;\n switch (method) {\n case o.BuiltinMethod.ConcatArray:\n name = 'concat';\n break;\n case\n o.BuiltinMethod.SubscribeObservable:\n name = 'subscribe';\n break;\n case o.BuiltinMethod.Bind:\n name = 'bind';\n break;\n default:\n throw new Error(`Unknown builtin method: ${method}`);\n }\n return name;\n }\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}
```

Found in path(s):

```
* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-  
tgz/package/src/output/abstract_js_emitter.js.map
```

No license file was found, but licenses were detected in source scan.

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gBAAGB,CAAC,CAAC;IACxB,CAAC,CAAC,CAAC;IACH,MAAM,CAAC,gBAAGB,CAAC;AAC1B,CAAC;AA
CD;;;;;;GAQG;AACH,2BACI,SAAoC,EAAE,YAA6B,EAAE,KAAc,EACnF,UAA2B,EAAE,YAA0B,EACvD,sB
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C,KAAK,CAAC,CAAC,CAAC;YACzF,YAAY,CAAC,IAAI,CAAC,IAAI,aAAa,CAC/B,mEAAiE,SAAS,CAAC,g
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AK,CAAC,IAAI,CAAC,KAAK,CAAC,CAAC;IACpB,CAAC,CAAC,CAAC;AACL,CAAC", "sourcesContent":["/*
*\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport
{CompileDiDependencyMetadata, CompileDirectiveMetadata, CompileDirectiveSummary,
CompileNgModuleMetadata, CompileProviderMetadata, CompileQueryMetadata, CompileTokenMetadata,
CompileTypeMetadata, tokenName, tokenReference} from './compile_metadata';\nimport {isBlank, isPresent} from
 './facade/lang';\nimport {Identifiers, createIdentifierToken, resolveIdentifier} from './identifiers';\nimport
{ParseError, ParseSourceSpan} from './parse_util';\nimport {AttrAst, DirectiveAst, ProviderAst, ProviderAstType,
ReferenceAst} from './template_parser/template_ast';\n\nexport class ProviderError extends ParseError {\n/**\n *
@param {?} message\n * @param {?} span\n */\nconstructor(message: string, span: ParseSourceSpan) {\n
super(span, message); }\n}\n\nexport class ProviderViewContext {\n /**\n * @internal\n * ^\n viewQueries:
Map<any, CompileQueryMetadata[]>;\n /**\n * @internal\n * ^\n viewProviders: Map<any, boolean>;\n errors:
ProviderError[] = [];\n/**\n * @param {?} component\n * @param {?} sourceSpan\n */\nconstructor(public
component: CompileDirectiveMetadata,\npublic sourceSpan: ParseSourceSpan) {\n this.viewQueries =
_getViewQueries(component);\n this.viewProviders = new Map<any, boolean>();\n
component.viewProviders.forEach((provider) => {\n if
(isBlank(this.viewProviders.get(tokenReference(provider.token)))) {\n
this.viewProviders.set(tokenReference(provider.token), true);\n } }\n});\n}\n}\n\nfunction
ProviderViewContext_tsickle_Closure_declarations() {\n /** @type {?}

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*\nProviderViewContext.prototype.viewQueries;\n /** @type {?}
*\nProviderViewContext.prototype.viewProviders;\n /** @type {?} *\nProviderViewContext.prototype.errors;\n
/** @type {?} *\nProviderViewContext.prototype.component;\n /** @type {?}
*\nProviderViewContext.prototype.sourceSpan;\n\n\n\nexport class ProviderElementContext {\nprivate
_contentQueries: Map<any, CompileQueryMetadata[]>;\nprivate _transformedProviders = new Map<any,
ProviderAst>();\nprivate _seenProviders = new Map<any, boolean>();\nprivate _allProviders: Map<any,
ProviderAst>;\nprivate _attrs: {[key: string]: string};\nprivate _hasViewContainer: boolean = false;\n/**\n *
@param {?} viewContext\n * @param {?} _parent\n * @param {?} _isViewRoot\n * @param {?} _directiveAsts\n
* @param {?} attrs\n * @param {?} refs\n * @param {?} _sourceSpan\n *\nconstructor(\npublic viewContext:
ProviderViewContext,\nprivate _parent: ProviderElementContext,\nprivate _isViewRoot: boolean,\nprivate
_directiveAsts: DirectiveAst[], attrs: AttrAst[],\n refs: ReferenceAst[],\nprivate _sourceSpan: ParseSourceSpan)
{\n this._attrs = {};\n attrs.forEach((attrAst) => this._attrs[attrAst.name] = attrAst.value);\n const
directivesMeta = _directiveAsts.map(directiveAst => directiveAst.directive);\n this._allProviders =\n
_resolveProvidersFromDirectives(directivesMeta, _sourceSpan, viewContext.errors);\n this._contentQueries =
_getContentQueries(directivesMeta);\n const queriedTokens = new Map<any, boolean>();\n
Array.from(this._allProviders.values()).forEach((provider) => {\n this._addQueryReadsTo(provider.token,
queriedTokens);\n });\n refs.forEach((refAst) => { this._addQueryReadsTo({value: refAst.name},
queriedTokens); });\n if (isPresent(queriedTokens.get(resolveIdentifier(Identifiers.ViewContainerRef)))) {\n
this._hasViewContainer = true;\n }\n\n // create the providers that we know are eager first\n
Array.from(this._allProviders.values()).forEach((provider) => {\n const eager = provider.eager ||
isPresent(queriedTokens.get(tokenReference(provider.token))); \n if (eager) {\n
this._getOrCreateLocalProvider(provider.providerType, provider.token, true);\n } \n });\n\n /**\n * @return
{?}\n *\nafterElement() {\n // collect lazy providers\n
Array.from(this._allProviders.values()).forEach((provider) => {\n
this._getOrCreateLocalProvider(provider.providerType, provider.token, false);\n });\n });\n\n /**\n * @return {?}
*\n *\nget transformProviders(): ProviderAst[] {\n return Array.from(this._transformedProviders.values());\n
}\n\n /**\n * @return {?} *\n *\nget transformedDirectiveAsts(): DirectiveAst[] {\n const /** @type {?} */
sortedProviderTypes = this.transformProviders.map(provider => provider.token.identifier);\n const /** @type {?} */
sortedDirectives = this._directiveAsts.slice();\n sortedDirectives.sort(\n (dir1, dir2) =>
sortedProviderTypes.indexOf(dir1.directive.type) -\n sortedProviderTypes.indexOf(dir2.directive.type));\n
return sortedDirectives;\n });\n\n /**\n * @return {?} *\n *\nget transformedHasViewContainer(): boolean { return
this._hasViewContainer; }\n\n /**\n * @param {?} token\n * @param {?} queryReadTokens\n * @return {?} *\n
*\nprivate _addQueryReadsTo(token: CompileTokenMetadata, queryReadTokens: Map<any, boolean>) {\n
this._getQueriesFor(token).forEach((query) => {\n const /** @type {?} */ queryReadToken = query.read ||
token;\n if (isBlank(queryReadTokens.get(tokenReference(queryReadToken)))) {\n
queryReadTokens.set(tokenReference(queryReadToken), true);\n } \n });\n });\n\n /**\n * @param {?} token\n
* @return {?} *\n *\nprivate _getQueriesFor(token: CompileTokenMetadata): CompileQueryMetadata[] {\n const
/** @type {?} */ result: CompileQueryMetadata[] = [];\n let /** @type {?} */ currentEl: ProviderElementContext
= this;\n let /** @type {?} */ distance = 0;\n let /** @type {?} */ queries: CompileQueryMetadata[];\n while
(currentEl !== null) {\n queries = currentEl._contentQueries.get(tokenReference(token));\n if
(isPresent(queries)) {\n result.push(...queries.filter((query) => query.descendants || distance <= 1));\n } \n
}\n if (currentEl._directiveAsts.length > 0) {\n distance++; \n } \n currentEl = currentEl._parent;\n } \n
queries = this.viewContext.viewQueries.get(tokenReference(token));\n if (isPresent(queries)) {\n
result.push(...queries);\n } \n return result;\n });\n\n /**\n * @param {?} requestingProviderType\n * @param {?}
token\n * @param {?} eager\n * @return {?} *\n *\nprivate _getOrCreateLocalProvider(\n
requestingProviderType: ProviderAstType, token: CompileTokenMetadata,\n eager: boolean): ProviderAst {\n
const /** @type {?} */ resolvedProvider = this._allProviders.get(tokenReference(token));\n if (!resolvedProvider ||
((requestingProviderType === ProviderAstType.Directive ||\n requestingProviderType ===

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ProviderAstType.PublicService) &&\n                resolvedProvider.providerType ===
ProviderAstType.PrivateService) ||\n        ((requestingProviderType === ProviderAstType.PrivateService ||\nrequestingProviderType === ProviderAstType.PublicService) &&\n        resolvedProvider.providerType ===
ProviderAstType.Builtin)) {\n    return null;\n } \n let /** @type {?} */ transformedProviderAst =
this._transformedProviders.get(tokenReference(token));\n if (isPresent(transformedProviderAst)) {\n    return
transformedProviderAst;\n } \n if (isPresent(this._seenProviders.get(tokenReference(token)))) {\n
this.viewContext.errors.push(new ProviderError(\n        `Cannot instantiate cyclic dependency!
${tokenName(token)}`, this._sourceSpan));\n    return null;\n } \n
this._seenProviders.set(tokenReference(token), true);\n    const /** @type {?} */ transformedProviders =
resolvedProvider.providers.map((provider) => {\n    let /** @type {?} */ transformedUseValue =
provider.useValue;\n    let /** @type {?} */ transformedUseExisting = provider.useExisting;\n    let /** @type
{?} */ transformedDeps: CompileDiDependencyMetadata[];\n    if (isPresent(provider.useExisting)) {\n    const
/** @type {?} */ existingDiDep = this._getDependency(\n        resolvedProvider.providerType, {token:
provider.useExisting}, eager);\n    if (isPresent(existingDiDep.token)) {\n        transformedUseExisting =
existingDiDep.token;\n    } else {\n        transformedUseExisting = null;\n        transformedUseValue =
existingDiDep.value;\n    } \n } else if (isPresent(provider.useFactory)) {\n    const /** @type {?} */ deps =
provider.deps || provider.useFactory.diDeps;\n    transformedDeps =\n        deps.map((dep) =>
this._getDependency(resolvedProvider.providerType, dep, eager));\n    } else if (isPresent(provider.useClass)) {\n
    const /** @type {?} */ deps = provider.deps || provider.useClass.diDeps;\n    transformedDeps =\n        deps.map((dep) => this._getDependency(resolvedProvider.providerType, dep, eager));\n    } \n    return
_transformProvider(provider, {\n        useExisting: transformedUseExisting,\n        useValue:
transformedUseValue,\n        deps: transformedDeps\n    });\n } \n transformedProviderAst =\n
_transformProviderAst(resolvedProvider, {eager: eager, providers: transformedProviders});\n
this._transformedProviders.set(tokenReference(token), transformedProviderAst);\n    return
transformedProviderAst;\n } \n /** \n * @param {?} requestingProviderType\n * @param {?} dep\n * @param {?}=
eager\n * @return {?} \n */ \n private _getLocalDependency(\n    requestingProviderType: ProviderAstType, dep:
CompileDiDependencyMetadata,\n    eager: boolean = null): CompileDiDependencyMetadata {\n    if
(dep.isAttribute) {\n    const /** @type {?} */ attrValue = this._attrs[dep.token.value];\n    return {isValue: true,
value: attrValue == null ? null : attrValue};\n    } \n \n    if (isPresent(dep.token)) {\n    // access builtins\n    if
((requestingProviderType === ProviderAstType.Directive ||\n        requestingProviderType ===
ProviderAstType.Component)) {\n    if (tokenReference(dep.token) === resolveIdentifier(Identifiers.Renderer)
||\n        tokenReference(dep.token) === resolveIdentifier(Identifiers.ElementRef) ||\n
tokenReference(dep.token) === resolveIdentifier(Identifiers.ChangeDetectorRef) ||\n
tokenReference(dep.token) === resolveIdentifier(Identifiers.TemplateRef)) {\n    return dep;\n    } \n    if
(tokenReference(dep.token) === resolveIdentifier(Identifiers.ViewContainerRef)) {\n    this._hasViewContainer
= true;\n    } \n } \n // access the injector\n    if (tokenReference(dep.token) ===
resolveIdentifier(Identifiers.Injector)) {\n    return dep;\n    } \n // access providers\n    if
(isPresent(this._getOrCreateLocalProvider(requestingProviderType, dep.token, eager))) {\n    return dep;\n    } \n
} \n    return null;\n } \n /** \n * @param {?} requestingProviderType\n * @param {?} dep\n * @param {?}=
eager\n * @return {?} \n */ \n private _getDependency(\n    requestingProviderType: ProviderAstType, dep:
CompileDiDependencyMetadata,\n    eager: boolean = null): CompileDiDependencyMetadata {\n    let /** @type
{?} */ currElement: ProviderElementContext = this;\n    let /** @type {?} */ currEager: boolean = eager;\n    let /**
@type {?} */ result: CompileDiDependencyMetadata = null;\n    if (!dep.isSkipSelf) {\n    result =
this._getLocalDependency(requestingProviderType, dep, eager);\n    } \n    if (dep.isSelf) {\n    if (!result &&
dep.isOptional) {\n    result = {isValue: true, value: null};\n    } \n } else {\n    // check parent elements\n
while (!result && isPresent(currElement._parent)) {\n    const /** @type {?} */ prevElement = currElement;\n
currElement = currElement._parent;\n    if (prevElement._isViewRoot) {\n    currEager = false;\n    } \n
result = currElement._getLocalDependency(ProviderAstType.PublicService, dep, currEager);\n    } \n // check

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QACvE,MAAM,CAAC,KAAK,CAAC;IACf,CAAC;IACD,KAAK,CAAC,IAAI,OAAV,KAAK,EAAS,IAAI,CAA  
C,uBAAuB,CAAC,MAAM,EAAE,CAAC,CAAC;IACrD,KAAK,CAAC,IAAI,OAAV,KAAK,EAAS,IAAI,CAAC,  
2BAA2B,CAAC,MAAM,EAAE,CAAC,CAAC;IACzD,IAAI,CAAC,cAAc,CAAC,OAAO,CAAC,UAAc,aAAa;Q  
ACxC,KAAK,CAAC,IAAI,CACN,aAAa,CAAC,UAAU,CAAC,4BAA4B,EAAE,CAAC,iBAAiB,CAAC,aAAa,CA  
AC,CAAC;aACpF,MAAM,EAAE,CAAC,CAAC;IACrB,CAAC,CAAC,CAAC;IACH,IAAM,gBAAgB,CAAC,iBA  
AiB,GAAG,IAAI,CAAC,0BAA0B,CAAC,MAAM,EAAE,CAAC,MAAM,CACtF,IAAI,CAAC,oCAAoC,CAAC,  
MAAM,EAAE,CAAC,CAAC;IACxD,EAAE,CAAC,CAAC,iBAAiB,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC  
,CAAC;QACjC,KAAK,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,MAAM,CAAC,CAAC,CAAC,GAAG,CAAC,iB  
AAiB,CAAC,aAAa,CAAC,EAAE,iBAAiB,CAAC,CAAC,CAAC;IACtF,CAAC;IACD,KAAK,CAAC,IAAI,OAA  
V,KAAK,EAAS,IAAI,CAAC,mCAAmC,CAAC,MAAM,EAAE,CAAC,CAAC;IACjE,IAAI,CAAC,YAA Y,CAAC  
,OAAO,CAAC,UAAc,SAAS;QACIC,KAAK,CAAC,IAAI,CACN,SAAS,CAAC,UAAU,CAAC,uBAAuB,EAAE,  
CAAC,iBAAiB,CAAC,aAAa,CAAC,CAAC,CAAC,MAAM,EAAE,CAAC,CAAC;IACjG,CAAC,CAAC,CAAC;I  
ACH,IAAM,gBAAgB,CAAC,cAAc,GACjC,IAAI,CAAC,uBAAuB,CAAC,MAAM,EAAE,CAAC,MAAM,CAAC,  
IAAI,CAAC,iCAAiC,CAAC,MAAM,EAAE,CAAC,CAAC;IACIG,EAAE,CAAC,CAAC,cAAc,CAAC,MAAM,G  
AAG,CAAC,CAAC,CAAC,CAAC;QAC9B,KAAK,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,MAAM,CAAC,CAA  
C,CAAC,GAAG,CAAC,iBAAiB,CAAC,aAAa,CAAC,EAAE,cAAc,CAAC,CAAC,CAAC;IACnF,CAAC;IAED,IA  
AM,gBAAgB,CAAC,QAAQ,GAAU,EAAE,CAAC;IAC5C,IAAM,gBAAgB,CAAC,QAAQ,GAAG,CAAC,CAAC,  
gBAAgB,CAAC,KAAK,CAAC,CAAC;IAC5D,EAAE,CAAC,CAAC,QAAQ,CAAC,GAAG,CAAC,iBAAiB,CAA  
C,OAAO,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC;QACjD,QAAQ,CAAC,IAAI,CAAC,iBAAiB,CAAC,OAAO,  
CAAC,GAAG,CAAC,CAAC,CAAC,OAAO,CAAC,IAAI,CAAC,CAAC,CAAC,UAAU,CAAC,CAAC,CAAC,SA  
AS,CAAC,CAAC,CAAC;IACxF,CAAC;IACD,EAAE,CAAC,CAAC,QAAQ,CAAC,GAAG,CAAC,iBAAiB,CAA  
C,OAAO,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC;QACjD,QAAQ,CAAC,IAAI,CACT,iBAAiB,CAAC,OAAO,  
CAAC,GAAG,CAAC,CAAC,CAAC,SAAS,CAAC;aACrC,UAAU,CAAC,IAAI,CAAC,CAAC,OAAO,CAAC,CA  
AC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,YAA Y,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;I  
AChG,CAAC;IACD,QAAQ,CAAC,IAAI,OAAb,QAAQ,EAAS,oCAAoC,CAAC,KAAK,CAAC,CAAC,CAAC;IA  
C9D,MAAM,CAAC,QAAQ,CAAC,MAAM,CAAC,KAAK,CAAC,CAAC;AACHc,CAAC;AACD;;;GAGG;AACH  
,iCAAiC,UAAyB,EAAE,KAAmB;IAC7E,EAAE,CAAC,CAAC,UAAU,CAAC,MAAM,GAAG,CAAC,CAAC,CA  
AC,CAAC;QAC1B,MAAM,CAAC,UAAU,CAAC,MAAM,CAAC,CAAC,IAAI,CAAC,CAAC,eAAe,CAAC,KAA  
K,CAAC,CAAC,CAAC,CAAC;IAC3D,CAAC;IAAC,IAAI,CAAC,CAAC;QACN,MAAM,CAAC,UAAU,CAAC;I  
ACpB,CAAC;AACH,CAAC;AACD;;;GAGG;AACH,wBAAwB,IAAiB;IACvC,EAAE,CAAC,CAAC,IAAI,CAAC  
,QAAQ,KAAK,QAAQ,CAAC,SAAS,CAAC,CAAC,CAAC;QACzC,MAAM,CAAC,CAAC,CAAC,UAAU,CAAC  
,IAAI,CAAC,SAAS,CAAC,IAAI,CAAC,CAAC;IAC3C,CAAC;IACD,MAAM,CAAC,CAAC,CAAC,YAA Y,CAA  
C;AACxB,CAAC;AACD;;;GAGG;AACH,gCAAgC,IAAiB;IAC/C,IAAI,gBAAgB,CAAC,IAA0B,CAAC;IACHd,  
EAAE,CAAC,CAAC,IAAI,CAAC,QAAQ,KAAK,QAAQ,CAAC,SAAS,CAAC,CAAC,CAAC;QACzC,IAAI,GAA  
G,gCAAgC,CAAC,IAAI,CAAC,SAAS,CAAC,eAAe,CAAC;YACnE,oBAAoB,CAAC,WAAW;YACHc,oBAAoB,  
CAAC,SAAS,CAAC;IACrC,CAAC;IAAC,IAAI,CAAC,CAAC;QACN,IAAI,GAAG,oBAAoB,CAAC,WAAW,CA  
AC;IAC1C,CAAC;IACD,MAAM,CAAC,IAAI,CAAC;AACd,CAAC;AACD;;;GAGG;AACH,sCAAsC,IAAiB;IA  
CrD,IAAM,gBAAgB,CAAC,KAAK,GAAG,CAAC,CAAC,QAAQ,CAAC,IAAI,CAAC,CAAC;IACHd,IAAM,gB  
AAgB,CAAC,MAAM,GAAG,CAAC,CAAC,QAAQ,CAAC,KAAK,CAAC,CAAC;IACID,IAAM,gBAAgB,CAAC  
,KAAK,GAakB,uBAAuB,CAAC,IAAI,CAAC,SAAS,EAAE,KAAK,EAAE,MAAM,CAAC,CAAC;IACrG,MAA  
M,CAAC,IAAI,CAAC,CAAC,WAAW,CACpB,wBAAwB,EACxB,CAAC,IAAI,CAAC,CAAC,OAAO,CAAC,KAA  
K,CAAC,IAAI,EAAE,CAAC,CAAC,YAA Y,CAAC,EAAE,IAAI,CAAC,CAAC,OAAO,CAAC,MAAM,CAAC,IA  
AI,EAAE,CAAC,CAAC,YAA Y,CAAC,CAAC,EACvF,KAAK,CAAC,CAAC;AACb,CAAC;AACD;;;GAGG;A  
ACH,6CAA6C,IAAiB;IAC5D,IAAM,gBAAgB,CAAC,YAA Y,GAAG,CAAC,CAAC,QAAQ,CAAC,WAAW,CAA  
C,CAAC;IAC9D,IAAM,gBAAgB,CAAC,iBAAiB,GAAG,CAAC,CAAC,QAAQ,CAAC,gBAAgB,CAAC,CAAC;I  
ACxE,IAAM,gBAAgB,CAAC,KAAK,GAAG,CAAC,CAAC,QAAQ,CAAC,IAAI,CAAC,CAAC;IACHd,IAAM,g  
BAAgB,CAAC,MAAM,GAAG,CAAC,CAAC,QAAQ,CAAC,KAAK,CAAC,CAAC;IACID,IAAM,gBAAgB,CAA

C, KAAK, GAAkB, EAAE, CAAC; IACjD, IAAI, CAAC, KAAK, CAAC, OAAO, CAAC, UAAC, IAAI; QACtB, EAAE, C  
AAC, CAAC, IAAI, YAAy, cAAc, IAAI, IAAI, CAAC, SAAS, CAAC, CAAC, CAAC; YACrD, IAAI, CAAC, 4BAA4B, C  
AAC, OAAO, CAAC, UAAC, cAAc, EAAE, cAAc; gBACvE, KAAK, CAAC, IAAI, CAAC, IAAI, CAAC, CAAC, MA  
M, CACnB, YAAy, CAAC, MAAM, CAAC, CAAC, CAAC, OAAO, CAAC, IAAI, CAAC, SAAS, CAAC, CAAC; qBACz  
C, GAAG, CAAC, iBAAiB, CAAC, MAAM, CAAC, CAAC, CAAC, OAAO, CAAC, cAAc, CAAC, CAAC, CAAC, EAC7  
D, uBAAuB, CAAC, cAAc, EAAE, KAAK, EAAE, MAAM, CAAC, CAAC, CAAC, CAAC; YAC/D, CAAC, CAAC, CAA  
C; QACL, CAAC; IACH, CAAC, CAAC, CAAC; IACH, MAAM, CAAC, IAAI, CAAC, CAAC, WAAW, CACpB, +BAA+  
B, EAC/B; QACE, IAAI, CAAC, CAAC, OAAO, CAAC, YAAy, CAAC, IAAI, EAAE, CAAC, CAAC, WAAW, CAAC; Q  
AC/C, IAAI, CAAC, CAAC, OAAO, CAAC, iBAAiB, CAAC, IAAI, EAAE, CAAC, CAAC, WAAW, CAAC; QACpD, IA  
AI, CAAC, CAAC, OAAO, CAAC, KAAK, CAAC, IAAI, EAAE, CAAC, CAAC, YAAy, CAAC, EAAE, IAAI, CAAC, C  
AAC, OAAO, CAAC, MAAM, CAAC, IAAI, EAAE, CAAC, CAAC, YAAy, CAAC; KACtF, EACD, KAAK, CAAC, CA  
AC; AACb, CAAC; AACD; ; ; ; GAKG; AACH, iCACI, KAA4B, EAAE, EAAGB, EAAE, GAAiB; IACnE, IAAM, gBAAG  
B, CAAC, KAAK, GAAkB, EAAE, CAAC; IACjD, KAAK, CAAC, OAAO, CAAC, UAAC, IAAI; QACjB, MAAM, CAA  
C, CAAC, IAAI, CAAC, IAAI, CAAC, CAAC, CAAC; YACIB, KAAK, uBAAuB, CAAC, IAAI; gBAC/B, KAAK, CAAC,  
IAAI, CAAC, EAAE, CAAC, MAAM, CAAC, CAAC, IAAI, CAAC, IAAI, EAAE, GAAG, CAAC, CAAC, CAAC, MA  
M, EAAE, CAAC, CAAC; gBACjD, KAAK, CAAC; YACR, KAAK, uBAAuB, CAAC, aAAa; gBACxC, KAAK, CAAC, I  
AAI, CAAC, EAAE, CAAC, MAAM, CAAC, CAAC, IAAI, CAAC, IAAI, CAAC, IAAI, CAAC, eAAe, CAAC, EAAE, GA  
AG, CAAC, CAAC, CAAC, MAAM, EAAE, CAAC, CAAC; gBACvE, KAAK, CAAC, IAAI, CAAC, IAAI, CAAC, IAAI,  
CAAC, UAAU, CAAC, 0BAA0B, EAAE, CAAC, EAAE, EAAE, GAAG, CAAC, CAAC, CAAC, MAAM, EAAE, CAAC,  
CAAC; gBACjF, KAAK, CAAC; YACR, KAAK, uBAAuB, CAAC, SAAS; gBACpC, KAAK, CAAC, IAAI, CACN, CAA  
C, CAAC, SAAS, CAAC, UAAU, CAAC, qBAAqB, EAAE, CAAC, CAAC, CAAC, OAAO, CAAC, IAAI, CAAC, cAAc, C  
AAC, EAAE, EAAE, EAAE, GAAG, CAAC, CAAC; qBACnF, MAAM, EAAE, CAAC, CAAC; gBACnB, KAAK, CAAC  
; QACV, CAAC; IACH, CAAC, CAAC, CAAC; IACH, MAAM, CAAC, KAAK, CAAC; AACf, CAAC; AACD; ; ; GAGG;  
AACH, 2CAA2C, IAAiB; IAC1D, IAAM, gBAAGB, CAAC, YAAy, GAAG, CAAC, CAAC, QAAQ, CAAC, WAAW, CA  
AC, CAAC; IAC9D, IAAM, gBAAGB, CAAC, KAAK, GAAkB, EAAE, CAAC; IACjD, IAAI, CAAC, KAAK, CAAC, OA  
AO, CAAC, UAAC, IAAI; QACtB, EAAE, CAAC, CAAC, IAAI, YAAy, cAAc, CAAC, CAAC, CAAC; YACnC, EAAE, C  
AAC, CAAC, IAAI, CAAC, YAAy, CAAC, CAAC, CAAC; gBACtB, IAAM, gBAAGB, CAAC, eAAe, GAAG, IAAI, CA  
AC, aAAa, EAAE, GAAG, IAAI, GAAG, IAAI, CAAC, MAAM, CAAC, SAAS, CAAC; gBAC7F, KAAK, CAAC, IAAI, C  
AAC, IAAI, CAAC, CAAC, MAAM, CACnB, YAAy, CAAC, MAAM, CAAC, CAAC, CAAC, OAAO, CAAC, IAAI, CA  
AC, SAAS, CAAC, CAAC, EAC9C, CAAC, IAAI, CAAC, CAAC, eAAe, CAAC, IAAI, CAAC, YAAy, CAAC, SAAS, CA  
AC, WAAW, CAAC; wBAC7D, cAAc, CAAC, SAAS, EAAE, CAAC, CAAC, SAAS, EAAE, CAAC, CAAC, OAAO, CA  
AC, IAAI, CAAC, SAAS, CAAC, EAAE, IAAI, CAAC, UAAU; wBACjF, IAAI, CAAC, aAAa; qBACnB, CAAC, CAAC,  
CAAC, CAAC, CAAC, CAAC; YACb, CAAC; QACH, CAAC; IACH, CAAC, CAAC, CAAC; IACH, EAAE, CAAC, CAA  
C, KAAK, CAAC, MAAM, GAAG, CAAC, CAAC, CAAC, CAAC; QACrB, KAAK, CAAC, IAAI, CAAC, IAAI, CAAC,  
CAAC, eAAe, CAAC, CAAC, CAAC, SAAS, CAAC, CAAC, CAAC; IACjD, CAAC; IACD, MAAM, CAAC, IAAI, CAA  
C, CAAC, WAAW, CACpB, 4BAA4B, EAAE, CAAC, IAAI, CAAC, CAAC, OAAO, CAAC, YAAy, CAAC, IAAI, EAAE  
, CAAC, CAAC, WAAW, CAAC, CAAC, EAAE, KAAK, EACtF, CAAC, CAAC, UAAU, CAAC, gBAAGB, CAAC, WAA  
W, CAAC, OAAO, CAAC, EAAE, CAAC, CAAC, CAAC, YAAy, CAAC, CAAC, CAAC, CAAC; AAC7E, CAAC", "sour  
cesContent": ["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is  
governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*\n\nimport { ViewEncapsulation } from '@angular/core';\nimport { CompileDirectiveMetadata,  
CompileDirectiveSummary, CompileIdentifierMetadata, CompileTokenMetadata, identifierModuleUrl,  
identifierName } from './compile\_metadata';\nimport { createSharedBindingVariablesIfNeeded } from  
 './compiler\_util/expression\_converter';\nimport { createDiTokenExpression, createInlineArray } from  
 './compiler\_util/identifier\_util';\nimport { isPresent } from './facade/lang';\nimport { Identifiers, createIdentifier,  
identifierToken } from './identifiers';\nimport { createClassStmt } from './output/class\_builder';\nimport \* as o from  
 './output/output\_ast';\nimport { ParseSourceSpan } from './parse\_util';\nimport { ChangeDetectorStatus, ViewType,  
isDefaultChangeDetectionStrategy } from './private\_import\_core';\nimport { AttrAst, BoundDirectivePropertyAst,

```

BoundElementPropertyAst, BoundEventAst, BoundTextAst, DirectiveAst, ElementAst, EmbeddedTemplateAst,
NgContentAst, ReferenceAst, TemplateAst, TemplateAstVisitor, TextAst, VariableAst, templateVisitAll} from
'./template_parser/template_ast';\n\nimport {CompileElement, CompileNode} from './compile_element';\nimport
{CompileView, CompileViewRootNode, CompileViewRootNodeType} from './compile_view';\nimport
{ChangeDetectorStatusEnum, DetectChangesVars, InjectMethodVars, ViewConstructorVars,
ViewEncapsulationEnum, ViewProperties, ViewTypeEnum} from './constants';\nimport
{ComponentFactoryDependency, DirectiveWrapperDependency, ViewClassDependency} from './deps';\nimport
{getViewClassName} from './util';\n\nconst /** @type {?} */ IMPLICIT_TEMPLATE_VAR = '\\$implicit';\nconst
/** @type {?} */ CLASS_ATTR = 'class';\nconst /** @type {?} */ STYLE_ATTR = 'style';\nconst /** @type {?}
*/ NG_CONTAINER_TAG = 'ng-container';\n\nconst /** @type {?} */ parentRenderNodeVar =
o.variable('parentRenderNode');\nconst /** @type {?} */ rootSelectorVar = o.variable('rootSelector');\n\n/**\n *
@param {?} view\n * @param {?} template\n * @param {?} targetDependencies\n * @return {?} */\n\nexport
function buildView(\n  view: CompileView, template: TemplateAst[],\n  targetDependencies:
Array<ViewClassDependency|ComponentFactoryDependency|DirectiveWrapperDependency>): number {\n  const
/** @type {?} */ builderVisitor = new ViewBuilderVisitor(view, targetDependencies);\n  const /** @type {?} */
parentEl =\n    view.declarationElement.isNull() ? view.declarationElement : view.declarationElement.parent;\n
  templateVisitAll(builderVisitor, template, parentEl);\n  if (view.viewType === ViewType.EMBEDDED ||
view.viewType === ViewType.HOST) {\n    view.lastRenderNode =
builderVisitor.getOrCreateLastRenderNode();\n  }\n  return builderVisitor.nestedViewCount;\n}\n\n/**\n * @param
 {?} view\n * @param {?} targetStatements\n * @return {?} */\n\nexport function finishView(view: CompileView,
targetStatements: o.Statement[]) {\n  view.afterNodes();\n  createViewTopLevelStmnts(view, targetStatements);\n
  view.nodes.forEach((node) => {\n    if (node instanceof CompileElement && node.hasEmbeddedView) {\n
      finishView(node.embeddedView, targetStatements);\n    }\n  });\n}\n\n\nclass ViewBuilderVisitor implements
TemplateAstVisitor {\n  nestedViewCount: number = 0;\n\n  /**\n   * @param {?} view\n   * @param {?}
targetDependencies\n   */\n  constructor(\n    public view: CompileView,\n    public targetDependencies:
Array<ViewClassDependency|ComponentFactoryDependency|DirectiveWrapperDependency> ) {\n  }\n\n  /**\n   *
@param {?} parent\n   * @return {?} */\n  private _isRootNode(parent: CompileElement): boolean { return
parent.view !== this.view; }\n\n  /**\n   * @param {?} node\n   * @return {?} */\n  private
_addRootNodeAndProject(node: CompileNode) {\n    const /** @type {?} */ projectedNode =
_getOuterContainerOrSelf(node);\n    const /** @type {?} */ parent = projectedNode.parent;\n    const /** @type
 {?} */ ngContentIndex = (/** @type {?} */(<any>projectedNode.sourceAst)).ngContentIndex;\n    const /**
@type {?} */ viewContainer =\n      (node instanceof CompileElement && node.hasViewContainer) ?
node.viewContainer : null;\n    if (this._isRootNode(parent)) {\n      if (this.view.viewType !==
ViewType.COMPONENT) {\n        this.view.rootNodes.push(new CompileViewRootNode(\n          viewContainer
? CompileViewRootNodeType.ViewContainer : CompileViewRootNodeType.Node,\n          viewContainer ||
node.renderNode));\n      }\n    } else if (isPresent(parent.component) && isPresent(ngContentIndex)) {\n
      parent.addContentNode(\n        ngContentIndex,\n        new CompileViewRootNode(\n          viewContainer ?
CompileViewRootNodeType.ViewContainer : CompileViewRootNodeType.Node,\n          viewContainer ||
node.renderNode));\n    }\n  }\n\n  /**\n   * @param {?} parent\n   * @return {?} */\n  private
_getParentRenderNode(parent: CompileElement): o.Expression {\n    parent =
_getOuterContainerParentOrSelf(parent);\n    if (this._isRootNode(parent)) {\n      if (this.view.viewType ===
ViewType.COMPONENT) {\n        return parentRenderNodeVar;\n      } else {\n        // root node of an
embedded/host view\n        return o.NULL_EXPR;\n      }\n    } else {\n      return isPresent(parent.component)
&&\n        parent.component.template.encapsulation !== ViewEncapsulation.Native ?\n        o.NULL_EXPR
:\n        parent.renderNode;\n    }\n  }\n\n  /**\n   * @return {?} */\n  getOrCreateLastRenderNode(): o.Expression {\n
const /** @type {?} */ view = this.view;\n  if (view.rootNodes.length === 0 ||\n
view.rootNodes[view.rootNodes.length - 1].type !== CompileViewRootNodeType.Node) {\n    const /** @type
 {?} */ fieldName = `_el_${view.nodes.length}`;\n    view.fields.push(\n      new o.ClassField(fieldName,

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o.importType(view.genConfig.renderTypes.renderElement));\n
view.createMethod.addStmt(o.THIS_EXPR.prop(fieldName))\n
.set(ViewProperties.renderer.callMethod(\n
o.NULL_EXPR]))\n
CompileViewRootNode(CompileViewRootNodeType.Node, o.THIS_EXPR.prop(fieldName));\n } return\n
view.rootNodes[view.rootNodes.length - 1].expr;\n }n/**n * @param {?} astn * @param {?} parentn * @return\n
{?}n *^nvisitBoundText(ast: BoundTextAst, parent: CompileElement): any {\n return this._visitText(ast, "\n
parent);\n }n/**n * @param {?} astn * @param {?} parentn * @return {?}n *^nvisitText(ast: TextAst, parent:\n
CompileElement): any {\n return this._visitText(ast, ast.value, parent);\n }n/**n * @param {?} astn * @param\n
{?} valuen * @param {?} parentn * @return {?}n *^nprivate _visitText(ast: TemplateAst, value: string, parent:\n
CompileElement): o.Expression {\n const /** @type {?} */ fieldName = `_text_${this.view.nodes.length}`;\n
this.view.fields.push(\n new o.ClassField(fieldName,\n
o.importType(this.view.genConfig.renderTypes.renderText));\n const /** @type {?} */ renderNode =\n
o.THIS_EXPR.prop(fieldName);\n const /** @type {?} */ compileNode = new CompileNode(parent, this.view,\n
this.view.nodes.length, renderNode, ast);\n const /** @type {?} */ createRenderNode =\n
o.THIS_EXPR.prop(fieldName)\n .set(ViewProperties.renderer.callMethod(\n 'createText',\n
[\n this._getParentRenderNode(parent), o.literal(value),\n
this.view.createMethod.resetDebugInfoExpr(this.view.nodes.length, ast)\n ]))\n .toStmt();\n
this.view.nodes.push(compileNode);\n this.view.createMethod.addStmt(createRenderNode);\n
this._addRootNodeAndProject(compileNode);\n return renderNode;\n }n/**n * @param {?} astn * @param\n
{?} parentn * @return {?}n *^nvisitNgContent(ast: NgContentAst, parent: CompileElement): any {\n // the\n
projected nodes originate from a different view, so we don't\n // have debug information for them...\n
this.view.createMethod.resetDebugInfo(null, ast);\n const /** @type {?} */ parentRenderNode =\n
this._getParentRenderNode(parent);\n if (parentRenderNode !== o.NULL_EXPR) {\n
this.view.createMethod.addStmt(\n o.THIS_EXPR.callMethod('projectNodes', [parentRenderNode,\n
o.literal(ast.index)])\n .toStmt());\n } else if (this._isRootNode(parent)) {\n if (this.view.viewType !==\n
ViewType.COMPONENT) {\n // store root nodes only for embedded/host views\n
this.view.rootNodes.push(\n new CompileViewRootNode(CompileViewRootNodeType.NgContent, null,\n
ast.index);\n }\n } else {\n if (isPresent(parent.component) && isPresent(ast.ngContentIndex)) {\n
parent.addContentNode(\n ast.ngContentIndex,\n new\n
CompileViewRootNode(CompileViewRootNodeType.NgContent, null, ast.index));\n }\n }\n return null;\n
}n/**n * @param {?} astn * @param {?} parentn * @return {?}n *^nvisitElement(ast: ElementAst, parent:\n
CompileElement): any {\n const /** @type {?} */ nodeIndex = this.view.nodes.length;\n let /** @type {?} */\n
createRenderNodeExpr: o.Expression;\n const /** @type {?} */ debugContextExpr =\n
this.view.createMethod.resetDebugInfoExpr(nodeIndex, ast);\n const /** @type {?} */ directives =\n
ast.directives.map(directiveAst => directiveAst.directive);\n const /** @type {?} */ component =\n
directives.find(directive => directive.isComponent);\n if (ast.name === NG_CONTAINER_TAG) {\n
createRenderNodeExpr = ViewProperties.renderer.callMethod(\n 'createTemplateAnchor',\n
[this._getParentRenderNode(parent), debugContextExpr]);\n } else {\n const /** @type {?} */ htmlAttrs =\n
_readHtmlAttrs(ast.attrs);\n const /** @type {?} */ attrNameAndValues = createInlineArray(\n
_mergeHtmlAndDirectiveAttrs(htmlAttrs, directives).map(v => o.literal(v));\n if (nodeIndex === 0 &&\n
this.view.viewType === ViewType.HOST) {\n createRenderNodeExpr =\n
o.importExpr(createIdentifier(Identifiers.selectOrCreateRenderHostElement)).callFn([\n
ViewProperties.renderer, o.literal(ast.name), attrNameAndValues, rootSelectorVar,\n
debugContextExpr\n
]);\n } else {\n createRenderNodeExpr =\n
o.importExpr(createIdentifier(Identifiers.createRenderElement)).callFn([\n ViewProperties.renderer,\n
this._getParentRenderNode(parent), o.literal(ast.name),\n attrNameAndValues, debugContextExpr\n
]);\n }\n }\n const /** @type {?} */ fieldName = `_el_${nodeIndex}`;\n this.view.fields.push(\n new

```



```

@type {?} *\nViewBuilderVisitor.prototype.targetDependencies;\n}\n\n/**\n * Walks up the nodes while the
direct parent is a container.\n * *\n * Returns the outer container or the node itself when it is not a direct child of a
container.\n * *\n * @param {?} node\n * @return {?} *\n\nfunction _getOuterContainerOrSelf(node:
CompileNode): CompileNode {\n  const /** @type {?} */ view = node.view;\n  while
(_isNgContainer(node.parent, view)) {\n    node = node.parent;\n  }\n  return node;\n}\n\n/**\n * Walks up the
nodes while they are container and returns the first parent which is not.\n * *\n * Returns the parent of the outer
container or the node itself when it is not a container.\n * *\n * @param {?} el\n * @return {?} *\n\nfunction
_getOuterContainerParentOrSelf(el: CompileElement): CompileElement {\n  const /** @type {?} */ view =
el.view;\n  while (_isNgContainer(el, view)) {\n    el = el.parent;\n  }\n  return el;\n}\n\n/**\n * @param {?}
node\n * @param {?} view\n * @return {?} *\n\nfunction _isNgContainer(node: CompileNode, view:
CompileView): boolean {\n  return !node.isNull() && (/** @type {?} */((<ElementAst>node.sourceAst)).name
=== NG_CONTAINER_TAG &&\n    node.view === view);\n}\n\n/**\n * @param {?} declaredHtmlAttrs\n *
@param {?} directives\n * @return {?} *\n\nfunction _mergeHtmlAndDirectiveAttrs(\n  declaredHtmlAttrs:
{[key: string]: string}, directives: CompileDirectiveSummary[]): string[] {\n  const /** @type {?} */ mapResult:
{[key: string]: string} = {};\n  Object.keys(declaredHtmlAttrs).forEach(key => { mapResult[key] =
declaredHtmlAttrs[key]; });\n  directives.forEach(directiveMeta => {\n
Object.keys(directiveMeta.hostAttributes).forEach(name => {\n    const /** @type {?} */ value =
directiveMeta.hostAttributes[name];\n    const /** @type {?} */ prevValue = mapResult[name];\n
mapResult[name] = isPresent(prevValue) ? mergeAttributeValue(name, prevValue, value) : value;\n  });\n});\n
const /** @type {?} */ arrResult: string[] = [];\n  // Note: We need to sort to get a defined output order\n  // for tests
and for caching generated artifacts...\n  Object.keys(mapResult).sort().forEach(\n    (attrName) => {
arrResult.push(attrName, mapResult[attrName]); });\n  return arrResult;\n}\n\n/**\n * @param {?} attrs\n * @return
{?} *\n\nfunction _readHtmlAttrs(attrs: AttrAst[]): {[key: string]: string} {\n  const /** @type {?} */ htmlAttrs:
{[key: string]: string} = {};\n  attrs.forEach((ast) => { htmlAttrs[ast.name] = ast.value; });\n  return
htmlAttrs;\n}\n\n/**\n * @param {?} attrName\n * @param {?} attrValue1\n * @param {?} attrValue2\n * @return
{?} *\n\nfunction mergeAttributeValue(attrName: string, attrValue1: string, attrValue2: string): string {\n  if
(attrName === CLASS_ATTR || attrName === STYLE_ATTR) {\n    return `${attrValue1} ${attrValue2}`;\n  } else
{\n    return attrValue2;\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} targetStatements\n * @return {?} *\n\nfunction createViewTopLevelStmts(view: CompileView, targetStatements: o.Statement[]) {\n  let /** @type
{?} */ nodeDebugInfosVar: o.Expression = o.NULL_EXPR;\n  if (view.genConfig.genDebugInfo) {\n
nodeDebugInfosVar = o.variable(\n
`nodeDebugInfos_${identifierName(view.component.type)}${view.viewIndex}`); // fix\n
// highlighting;\n
// \n
targetStatements.push(\n
  (/** @type {?} */((<o.ReadVarExpr>nodeDebugInfosVar)))\n
.set(o.literalArr(\n
  view.nodes.map(createStaticNodeDebugInfo),\n
  new o.ArrayType(\n
    o.importType(createIdentifier(Identifiers.StaticNodeDebugInfo)),\n
    [o.TypeModifier.Const]))\n
.toDeclStmnt(null, [o.StmntModifier.Final]);\n
})\n\n  const /** @type {?} */ renderCompTypeVar: o.ReadVarExpr
=\n
  o.variable(`renderType_${identifierName(view.component.type)}`); // fix highlighting;\n  if
(view.viewIndex === 0) {\n    let /** @type {?} */ templateUrlInfo: string;\n    if
(view.component.template.templateUrl === identifierModuleUrl(view.component.type)) {\n      templateUrlInfo =\n
`${identifierModuleUrl(view.component.type)} class ${identifierName(view.component.type)} - inline
template`;\n    } else {\n      templateUrlInfo = view.component.template.templateUrl;\n    }\n
targetStatements.push(\n
  renderCompTypeVar\n
.set(o.importExpr(createIdentifier(Identifiers.createRenderComponentType))).callFn([\n
view.genConfig.genDebugInfo ? o.literal(templateUrlInfo) : o.literal(""),\n
o.literal(view.component.template.ngContentSelectors.length),\n
ViewEncapsulationEnum.fromValue(view.component.template.encapsulation),\n
view.styles,\n
o.literalMap(view.animations.map(\n
  (entry): [string, o.Expression] => [entry.name, entry.fnExp]),\n

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    ))\n      .toDeclStmt(o.importType(createIdentifier(Identifiers.RenderComponentType)));\n    }\n\n    const /**
    @type {?} */ viewClass = createViewClass(view, renderCompTypeVar, nodeDebugInfosVar);\n
    targetStatements.push(viewClass);\n  }\n\n  /**\n   * @param {?} node\n   * @return {?} */\n  ^\nfunction
  createStaticNodeDebugInfo(node: CompileNode): o.Expression {\n  const /** @type {?} */ compileElement = node
  instanceof CompileElement ? node : null;\n  let /** @type {?} */ providerTokens: o.Expression[] = [];\n  let /**
  @type {?} */ componentToken: o.Expression = o.NULL_EXPR;\n  const /** @type {?} */ varTokenEntries: any[]
  = [];\n  if (isPresent(compileElement)) {\n    providerTokens = compileElement.getProviderTokens();\n    if
  (isPresent(compileElement.component)) {\n      componentToken =
  createDiTokenExpression(identifierToken(compileElement.component.type));\n    }\n
  Object.keys(compileElement.referenceTokens).forEach(varName => {\n      const /** @type {?} */ token =
  compileElement.referenceTokens[varName];\n      varTokenEntries.push(\n        [varName, isPresent(token) ?
  createDiTokenExpression(token) : o.NULL_EXPR];\n      });\n    }\n  }\n  return
  o.importExpr(createIdentifier(Identifiers.StaticNodeDebugInfo))\n    .instantiate(\n      [\n
  o.literalArr(providerTokens, new o.ArrayType(o.DYNAMIC_TYPE, [o.TypeModifier.Const])),\n
  componentToken,\n      o.literalMap(varTokenEntries, new o.MapType(o.DYNAMIC_TYPE,
  [o.TypeModifier.Const]))\n    ],\n      o.importType(\n
  createIdentifier(Identifiers.StaticNodeDebugInfo), null, [o.TypeModifier.Const]);\n  })\n\n  /**\n   * @param {?} view\n
  * @param {?} renderCompTypeVar\n   * @param {?} nodeDebugInfosVar\n   * @return {?} */\n  ^\nfunction
  createViewClass(\n    view: CompileView, renderCompTypeVar: o.ReadVarExpr,\n    nodeDebugInfosVar:
  o.Expression): o.ClassStmt {\n  const /** @type {?} */ viewConstructorArgs = [\n    new o.FnParam(\n
  ViewConstructorVars.viewUtils.name, o.importType(createIdentifier(Identifiers.ViewUtils))),\n    new
  o.FnParam(\n      ViewConstructorVars.parentView.name,\n
  o.importType(createIdentifier(Identifiers.AppView), [o.DYNAMIC_TYPE])),\n    new
  o.FnParam(ViewConstructorVars.parentIndex.name, o.NUMBER_TYPE),\n    new
  o.FnParam(ViewConstructorVars.parentElement.name, o.DYNAMIC_TYPE)\n  ];\n  const /** @type {?} */
  superConstructorArgs = [\n    o.variable(view.className), renderCompTypeVar,\n
  ViewTypeEnum.fromValue(view.viewType),\n    ViewConstructorVars.viewUtils,\n
  ViewConstructorVars.parentView, ViewConstructorVars.parentIndex,\n    ViewConstructorVars.parentElement,\n
  ChangeDetectorStatusEnum.fromValue(getChangeDetectionMode(view))\n  ];\n  if
  (view.genConfig.genDebugInfo) {\n    superConstructorArgs.push(nodeDebugInfosVar);\n  }\n  if (view.viewType
  === ViewType.EMBEDDED) {\n    viewConstructorArgs.push(new o.FnParam(\n      'declaredViewContainer',
  o.importType(createIdentifier(Identifiers.ViewContainer)));\n
  superConstructorArgs.push(o.variable('declaredViewContainer'));\n  }\n  const /** @type {?} */ viewMethods = [\n
  new o.ClassMethod(\n    'createInternal', [new o.FnParam(rootSelectorVar.name, o.STRING_TYPE)],\n
  generateCreateMethod(view),\n    o.importType(createIdentifier(Identifiers.ComponentRef),
  [o.DYNAMIC_TYPE]),\n    new o.ClassMethod(\n      'injectorGetInternal',\n      [\n        new
  o.FnParam(InjectMethodVars.token.name, o.DYNAMIC_TYPE),\n        // Note: Can't use o.INT_TYPE here as
  the method in AppView uses number\n        new o.FnParam(InjectMethodVars.requestNodeIndex.name,
  o.NUMBER_TYPE),\n        new o.FnParam(InjectMethodVars.notFoundResult.name, o.DYNAMIC_TYPE)\n      ],\n
  addReturnValuefNotEmpty(view.injectorGetMethod.finish(), InjectMethodVars.notFoundResult),\n
  o.DYNAMIC_TYPE),\n    new o.ClassMethod(\n      'detectChangesInternal', [new
  o.FnParam(DetectChangesVars.throwOnChange.name, o.BOOL_TYPE)],\n
  generateDetectChangesMethod(view)),\n    new o.ClassMethod('dirtyParentQueriesInternal', [],
  view.dirtyParentQueriesMethod.finish()),\n    new o.ClassMethod('destroyInternal', [],
  generateDestroyMethod(view)),\n    new o.ClassMethod('detachInternal', [], view.detachMethod.finish()),\n
  generateVisitRootNodesMethod(view), generateVisitProjectableNodesMethod(view),\n
  generateCreateEmbeddedViewsMethod(view)\n  ]\n  .filter((method) => method.body.length > 0);\n  const /** @type
  {?} */ superClass = view.genConfig.genDebugInfo ? Identifiers.DebugAppView : Identifiers.AppView;\n  const

```



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/** @type {?} */ viewClass = createClassStmt({\n  name: view.className,\n  parent:
o.importExpr(createIdentifier(superClass), [getContextType(view)]),\n  parentArgs: superConstructorArgs,\n  ctorParams: viewConstructorArgs,\n  builders: [{methods: viewMethods}, view]\n });\n return
viewClass;\n}\n/**\n * @param {?} view\n * @return {?}\n */\nfunction generateDestroyMethod(view:
CompileView): o.Statement[] {\n  const /** @type {?} */ stmts: o.Statement[] = [];\n
view.viewContainers.forEach((viewContainer) => {\n
stmts.push(viewContainer.callMethod('destroyNestedViews', []).toStmt());\n });\n view.viewChildren.forEach(\n
(viewChild) => { stmts.push(viewChild.callMethod('destroy', []).toStmt()); });\n
stmts.push(...view.destroyMethod.finish());\n return stmts;\n}\n/**\n * @param {?} view\n * @return {?}\n
*/\nfunction generateCreateMethod(view: CompileView): o.Statement[] {\n  let /** @type {?} */
parentRenderNodeExpr: o.Expression = o.NULL_EXPR;\n  let /** @type {?} */ parentRenderNodeStmts: any[] =
[];\n  if (view.viewType === ViewType.COMPONENT) {\n    parentRenderNodeExpr =\n    ViewProperties.renderer.callMethod('createViewRoot', [o.THIS_EXPR.prop('parentElement')]);\n
parentRenderNodeStmts =\n    [parentRenderNodeVar.set(parentRenderNodeExpr)\n      .toDeclStmt(\n
o.importType(view.genConfig.renderTypes.renderNode), [o.StmtModifier.Final]);\n    ]\n    let /** @type {?} */
resultExpr: o.Expression;\n    if (view.viewType === ViewType.HOST) {\n      const /** @type {?} */ hostEl = /**
@type {?} */(( <CompileElement>view.nodes[0]));\n      resultExpr =\n
o.importExpr(createIdentifier(Identifiers.ComponentRef_), [o.DYNAMIC_TYPE]).instantiate([\n
o.literal(hostEl.nodeIndex), o.THIS_EXPR, hostEl.renderNode, hostEl.getComponent()\n    ]);\n    } else {\n
resultExpr = o.NULL_EXPR;\n    }\n    const /** @type {?} */ allNodesExpr: o.Expression =\n    ViewProperties.renderer.cast(o.DYNAMIC_TYPE)\n      .prop('directRenderer')\n
      .conditional(o.NULL_EXPR, o.literalArr(view.nodes.map(node => node.renderNode)));\n    return
parentRenderNodeStmts.concat(view.createMethod.finish(), [\n    o.THIS_EXPR\n      .callMethod(\n
'init',\n    [\n      view.lastRenderNode,\n      allNodesExpr,\n      view.disposables.length ?
o.literalArr(view.disposables) : o.NULL_EXPR,\n    ])\n      .toStmt(),\n    new
o.ReturnStatement(resultExpr)\n  ]);\n  }\n}\n/**\n * @param {?} view\n * @return {?}\n */\nfunction
generateDetectChangesMethod(view: CompileView): o.Statement[] {\n  const /** @type {?} */ stmts: any[] = [];\n
if (view.animationBindingsMethod.isEmpty() && view.detectChangesInInputsMethod.isEmpty() &&\n
view.updateContentQueriesMethod.isEmpty() &&\n  view.afterContentLifecycleCallbacksMethod.isEmpty()
&&\n  view.detectChangesRenderPropertiesMethod.isEmpty() &&\n
view.updateViewQueriesMethod.isEmpty() && view.afterViewLifecycleCallbacksMethod.isEmpty() &&\n
view.viewContainers.length === 0 && view.viewChildren.length === 0) {\n    return stmts;\n  }\n
stmts.push(...view.animationBindingsMethod.finish());\n
stmts.push(...view.detectChangesInInputsMethod.finish());\n  view.viewContainers.forEach((viewContainer) => {\n
stmts.push(\n    viewContainer.callMethod('detectChangesInNestedViews',
[DetectChangesVars.throwOnChange])\n      .toStmt());\n  });\n  const /** @type {?} */ afterContentStmts =
view.updateContentQueriesMethod.finish().concat(\n    view.afterContentLifecycleCallbacksMethod.finish());\n  if
(afterContentStmts.length > 0) {\n    stmts.push(new o.IfStmt(o.not(DetectChangesVars.throwOnChange),
afterContentStmts));\n  }\n  stmts.push(...view.detectChangesRenderPropertiesMethod.finish());\n
view.viewChildren.forEach((viewChild) => {\n    stmts.push(\n    viewChild.callMethod('internalDetectChanges',
[DetectChangesVars.throwOnChange]).toStmt());\n  });\n  const /** @type {?} */ afterViewStmts =\n
view.updateViewQueriesMethod.finish().concat(view.afterViewLifecycleCallbacksMethod.finish());\n  if
(afterViewStmts.length > 0) {\n    stmts.push(new o.IfStmt(o.not(DetectChangesVars.throwOnChange),
afterViewStmts));\n  }\n}\n  const /** @type {?} */ varStmts: any[] = [];\n  const /** @type {?} */ readVars =
o.findReadVarNames(stmts);\n  if (readVars.has(DetectChangesVars.changed.name)) {\n
varStmts.push(DetectChangesVars.changed.set(o.literal(true)).toDeclStmt(o.BOOL_TYPE));\n  }\n  if
(readVars.has(DetectChangesVars.changes.name)) {\n    varStmts.push(\n
DetectChangesVars.changes.set(o.NULL_EXPR)\n      .toDeclStmt(new

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o.MapType(o.importType(createIdentifier(Identifiers.SimpleChange)))));\n }
varStmts.push(...createSharedBindingVariablesIfNeeded(stmts));\n return varStmts.concat(stmts);\n}\n\n/**\n *
@param {?} statements\n * @param {?} value\n * @return {?}\n */\nfunction
addReturnValueIfNotEmpty(statements: o.Statement[], value: o.Expression): o.Statement[] {\n if (statements.length
> 0) {\n return statements.concat([new o.ReturnStatement(value)];\n } else {\n return statements;\n }\n}\n\n/**\n *
@param {?} view\n * @return {?}\n */\nfunction getContextType(view: CompileView): o.Type {\n if
(view.viewType === ViewType.COMPONENT) {\n return o.importType(view.component.type);\n }\n return
o.DYNAMIC_TYPE;\n}\n\n/**\n * @param {?} view\n * @return {?}\n */\nfunction
getChangeDetectionMode(view: CompileView): ChangeDetectorStatus {\n let /** @type {?} */ mode:
ChangeDetectorStatus;\n if (view.viewType === ViewType.COMPONENT) {\n mode =
isDefaultChangeDetectionStrategy(view.component.changeDetection) ?\n ChangeDetectorStatus.CheckAlways
:\n ChangeDetectorStatus.CheckOnce;\n } else {\n mode = ChangeDetectorStatus.CheckAlways;\n }\n
return mode;\n}\n\n/**\n * @param {?} view\n * @return {?}\n */\nfunction generateVisitRootNodesMethod(view:
CompileView): o.ClassMethod {\n const /** @type {?} */ cbVar = o.variable('cb');\n const /** @type {?} */
ctxVar = o.variable('ctx');\n const /** @type {?} */ stmts: o.Statement[] =
generateVisitNodesStmts(view.rootNodes, cbVar, ctxVar);\n return new o.ClassMethod(\n
'visitRootNodesInternal',\n [new o.FnParam(cbVar.name, o.DYNAMIC_TYPE), new o.FnParam(ctxVar.name,
o.DYNAMIC_TYPE)],\n stmts);\n}\n\n/**\n * @param {?} view\n * @return {?}\n */\nfunction
generateVisitProjectableNodesMethod(view: CompileView): o.ClassMethod {\n const /** @type {?} */
nodeIndexVar = o.variable('nodeIndex');\n const /** @type {?} */ ngContentIndexVar =
o.variable('ngContentIndex');\n const /** @type {?} */ cbVar = o.variable('cb');\n const /** @type {?} */
ctxVar = o.variable('ctx');\n const /** @type {?} */ stmts: o.Statement[] = [];\n view.nodes.forEach((node) => {\n if (node
instanceof CompileElement && node.component) {\n
node.contentNodesByNgContentIndex.forEach((projectedNodes, ngContentIndex) => {\n stmts.push(new
o.IfStmt(\n nodeIndexVar.equals(o.literal(node.nodeIndex))\n
.and(ngContentIndexVar.equals(o.literal(ngContentIndex))),\n generateVisitNodesStmts(projectedNodes,
cbVar, ctxVar));\n });\n }\n });\n return new o.ClassMethod(\n 'visitProjectableNodesInternal',\n [\n
new o.FnParam(nodeIndexVar.name, o.NUMBER_TYPE),\n new o.FnParam(ngContentIndexVar.name,
o.NUMBER_TYPE),\n new o.FnParam(cbVar.name, o.DYNAMIC_TYPE), new o.FnParam(ctxVar.name,
o.DYNAMIC_TYPE)\n ],\n stmts);\n}\n\n/**\n * @param {?} nodes\n * @param {?} cb\n * @param {?} ctx\n *
@return {?}\n */\nfunction generateVisitNodesStmts(\n nodes: CompileViewRootNode[], cb: o.Expression, ctx:
o.Expression): o.Statement[] {\n const /** @type {?} */ stmts: o.Statement[] = [];\n nodes.forEach((node) => {\n
switch (node.type) {\n case CompileViewRootNodeType.Node:\n stmts.push(cb.callFn([node.expr,
ctx]).toStmt());\n break;\n case CompileViewRootNodeType.ViewContainer:\n
stmts.push(cb.callFn([node.expr.prop('nativeElement'), ctx]).toStmt());\n
stmts.push(node.expr.callMethod('visitNestedViewRootNodes', [cb, ctx]).toStmt());\n break;\n case
CompileViewRootNodeType.NgContent:\n stmts.push(\n
o.THIS_EXPR.callMethod('visitProjectedNodes', [o.literal(node.ngContentIndex), cb, ctx]).toStmt());\n
break;\n }\n });\n return stmts;\n}\n\n/**\n * @param {?} view\n * @return {?}\n */\nfunction
generateCreateEmbeddedViewsMethod(view: CompileView): o.ClassMethod {\n const /** @type {?} */
nodeIndexVar = o.variable('nodeIndex');\n const /** @type {?} */ stmts: o.Statement[] = [];\n
view.nodes.forEach((node) => {\n if (node instanceof CompileElement) {\n if (node.embeddedView) {\n
const /** @type {?} */ parentNodeIndex = node.isRootElement() ? null : node.parent.nodeIndex;\n
stmts.push(new o.IfStmt(\n nodeIndexVar.equals(o.literal(node.nodeIndex)),\n [new
o.ReturnStatement(node.embeddedView.classExpr.instantiate([\n ViewProperties.viewUtils,
o.THIS_EXPR, o.literal(node.nodeIndex), node.renderNode,\n node.viewContainer\n ]))]);\n }\n
})\n });\n if (stmts.length > 0) {\n stmts.push(new o.ReturnStatement(o.NULL_EXPR));\n }\n return new
o.ClassMethod(\n 'createEmbeddedViewInternal', [new o.FnParam(nodeIndexVar.name, o.NUMBER_TYPE)],

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stmts,\n  o.importType(createIdentifier(Identifiers.AppView), [o.DYNAMIC_TYPE]));\n}\n\ninterface\nDecoratorInvocation {\n  type: Function;\n  args?: any[];\n}
```

Found in path(s):

```
* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-  
tgz/package/src/view_compiler/view_builder.js.map
```

No license file was found, but licenses were detected in source scan.

```
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C/D,IAAM,gBAAgB,CAAC,gBAAgB,GAAG,aAAa,CAAC;AACxD,IAAM,gBAAgB,CAAC,gBAAgB,GAAG,IA  
AI,CAAC;AAE/C;IAAA;IAoCA,CAAC;IANCD;::OAGG;IACH,mBAAK,GAAL,UAAU,QAAwB,IAAY,MAAM,  
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gB,GAAMC,EAAE,CAAC;QAC7E,IAAM,gBAAgB,CAAC,SAAS,GAAG,IAAI,SAAS,EAAE,CAAC;QACnD,  
MAAM,CAAC,IAAI,CAAC,cAAc,CAAC,CAAC,OAAO,CAAC,UAAA,KAAK;YACvC,IAAA,6CAAuE,EAAhE,  
wBAAS,EAAE,aAAS,CAA6C;YACxE,MAAM,CAAC,IAAI,OAAx,MAAM,EAAS,CAAC,CAAC,CAAC;YACIB  
,gBAAgB,CAAC,KAAK,CAAC,GAAG,SAAS,CAAC;QACtC,CAAC,CAAC,CAAC;QAEH,EAAE,CAAC,CAAC  
,MAAM,CAAC,MAAM,CAAC,CAAC,CAAC;YACIB,MAAM,IAAI,KAAK,CAAC,wBAAsB,MAAM,CAAC,IA  
AI,CAAC,IAAI,CAAG,CAAC,CAAC;QAC7D,CAAC;QAEI,MAAM,CAAC,gBAAgB,CAAC;IAC1B,CAAC;IA  
CH;::OAGG;IACH,oBAAM,GAAN,UAAO,OAAqB,IAAY,MAAM,CAAC,MAAM,CAAC,OAAO,CAAC,CAAC,  
CAAC,CAAC;IACjE,UAAU;AAAD,CAAC,AApCD,IAoCC;AAED,kDAaK;AACID;IAAA;IA+FA,CAAC;IA3F  
D;::OAIg;IACH,yBAAK,GAAL,UAAU,GAAW,EAAE,GAAW;QAC1B,IAAI,CAAC,YAAy,GAAG,CAAC,CA  
AC;QACtB,IAAI,CAAC,eAAe,GAAG,EAAE,CAAC;QAE1B,IAAM,gBAAgB,CAAC,GAAG,GAAG,IAAI,SAAS  
,EAAE,CAAC,KAAK,CAAC,GAAG,EAAE,GAAG,EAAE,IAAI,CAAC,CAAC;QAEEnE,IAAI,CAAC,OAAO,GA  
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@type {?} */ xml = new XmlParser().parse(xtb, url, true);\n\n this._errors = xml.errors;\n ml.visitAll(this,
xml.rootNodes);\n\n return {\n mlNodesByMsgId: this._mlNodesByMsgId,\n errors: this._errors,\n };\n
}\n/**\n * @param {?} element\n * @param {?} context\n * @return {?}\n */\n\nvisitElement(element: ml.Element,
context: any): any {\n switch (element.name) {\n case _TRANSLATIONS_TAG:\n
this._bundleDepth++;\n if (this._bundleDepth > 1) {\n this._addError(element,
`<${_TRANSLATIONS_TAG}> elements can not be nested`);\n }\n ml.visitAll(this, element.children,
null);\n this._bundleDepth--;\n break;\n\n case _TRANSLATION_TAG:\n const /** @type {?} */
idAttr = element.attrs.find((attr => attr.name === 'id');\n if (!idAttr) {\n this._addError(element,
`<${_TRANSLATION_TAG}> misses the \"id\" attribute`);\n } else {\n const /** @type {?} */ id =
idAttr.value;\n if (this._mlNodesByMsgId.hasOwnProperty(id)) {\n this._addError(element,
`Duplicated translations for msg ${id}`);\n } else {\n this._mlNodesByMsgId[id] = element.children;\n
}\n }\n break;\n\n default:\n this._addError(element, 'Unexpected tag');\n }\n }\n/**\n *
@param {?} attribute\n * @param {?} context\n * @return {?}\n */\n\nvisitAttribute(attribute: ml.Attribute, context:
any): any {\n/**\n * @param {?} text\n * @param {?} context\n * @return {?}\n */\n\nvisitText(text: ml.Text,
context: any): any {\n/**\n * @param {?} comment\n * @param {?} context\n * @return {?}\n */\n\nvisitComment(comment: ml.Comment, context: any): any {\n/**\n * @param {?} expansion\n * @param {?}
context\n * @return {?}\n */\n\nvisitExpansion(expansion: ml.Expansion, context: any): any {\n/**\n * @param {?}
expansionCase\n * @param {?} context\n * @return {?}\n */\n\nvisitExpansionCase(expansionCase:
ml.ExpansionCase, context: any): any {\n/**\n * @param {?} node\n * @param {?} message\n * @return {?}\n */\n\nprivate _addError(node: ml.Node, message: string): void {\n this._errors.push(new
I18nError(node.sourceSpan, message));\n }\n}\n\nfunction XtbParser_tsickle_Closure_declarations() {\n/** @type
{?} */\n\nXtbParser.prototype._bundleDepth;\n/** @type {?} */\n\nXtbParser.prototype._errors;\n/** @type {?} */\n\nXtbParser.prototype._mlNodesByMsgId;\n}\n\n// Convert ml nodes (xtb syntax) to i18n nodes\nclass
XmlToI18n implements ml.Visitor {\nprivate _errors: I18nError[];\n/**\n * @param {?} nodes\n * @return {?}\n */\n\nconvert(nodes: ml.Node[]) {\n this._errors = [];\n return {\n i18nNodes: ml.visitAll(this, nodes),\n
errors: this._errors,\n };\n }\n/**\n * @param {?} text\n * @param {?} context\n * @return {?}\n */\n\nvisitText(text: ml.Text, context: any) {\n return new i18n.Text(text.value, text.sourceSpan); }\n/**\n * @param
{?} icu\n * @param {?} context\n * @return {?}\n */\n\nvisitExpansion(icu: ml.Expansion, context: any) {\n const
/** @type {?} */ caseMap: {[value: string]: i18n.Node} = {};\n\n ml.visitAll(this, icu.cases).forEach(c => {\n
caseMap[c.value] = new i18n.Container(c.nodes, icu.sourceSpan);\n });\n\n return new
i18n.Icu(icu.switchValue, icu.type, caseMap, icu.sourceSpan);\n }\n/**\n * @param {?} icuCase\n * @param {?}
context\n * @return {?}\n */\n\nvisitExpansionCase(icuCase: ml.ExpansionCase, context: any): any {\n return {\n
value: icuCase.value,\n nodes: ml.visitAll(this, icuCase.expression),\n }; }\n/**\n * @param {?} el\n *
@param {?} context\n * @return {?}\n */\n\nvisitElement(el: ml.Element, context: any): i18n.Placeholder {\n if
(el.name === _PLACEHOLDER_TAG) {\n const /** @type {?} */ nameAttr = el.attrs.find((attr => attr.name
=== 'name');\n if (nameAttr) {\n return new i18n.Placeholder(", nameAttr.value, el.sourceSpan);\n }\n\n
this._addError(el, `<${_PLACEHOLDER_TAG}> misses the \"name\" attribute`);\n } else {\n
this._addError(el, `Unexpected tag`);\n }\n }\n/**\n * @param {?} comment\n * @param {?} context\n *
@return {?}\n */\n\nvisitComment(comment: ml.Comment, context: any) {\n/**\n * @param {?} attribute\n *
@param {?} context\n * @return {?}\n */\n\nvisitAttribute(attribute: ml.Attribute, context: any) {\n/**\n * @param
{?} node\n * @param {?} message\n * @return {?}\n */\n\nprivate _addError(node: ml.Node, message: string): void
{\n this._errors.push(new I18nError(node.sourceSpan, message));\n }\n}\n\nfunction
XmlToI18n_tsickle_Closure_declarations() {\n/** @type {?} */\n\nXmlToI18n.prototype._errors;\n}\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/xtb.js.map

No license file was found, but licenses were detected in source scan.

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code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*\n\nimport { AnimationEntryCompileResult } from './animation/animation_compiler';\nimport
{ CompileDirectiveMetadata, CompileIdentifierMetadata, CompilePipeSummary, tokenName } from
'./compile_metadata';\nimport { EventHandlerVars, NameResolver } from
'./compiler_util/expression_converter';\nimport { createPureProxy } from './compiler_util/identifier_util';\nimport
{ CompilerConfig } from './config';\nimport { isPresent } from './facade/lang';\nimport { Identifiers, createIdentifier }
from './identifiers';\nimport * as o from './output/output_ast';\nimport { ViewType } from
'./private_import_core';\n\nimport { CompileElement, CompileNode } from './compile_element';\nimport
{ CompileMethod } from './compile_method';\nimport { CompilePipe } from './compile_pipe';\nimport
{ CompileQuery, addQueryToTokenMap, createQueryList } from './compile_query';\nimport
{ ComponentFactoryDependency, DirectiveWrapperDependency, ViewClassDependency } from './deps';\nimport
{ getPropertyInView, getViewClassName } from './util';\n\nexport type CompileViewRootNodeType =
number;\n\nexport let CompileViewRootNodeType: any = {};\n\nCompileViewRootNodeType.Node =
0;\n\nCompileViewRootNodeType.ViewContainer = 1;\n\nCompileViewRootNodeType.NgContent =
2;\n\nCompileViewRootNodeType[CompileViewRootNodeType.Node] =
\"Node\";\n\nCompileViewRootNodeType[CompileViewRootNodeType.ViewContainer] =
\"ViewContainer\";\n\nCompileViewRootNodeType[CompileViewRootNodeType.NgContent] =
\"NgContent\";\n\n\nexport class CompileViewRootNode {\n/**\n * @param {?} type\n * @param {?} expr\n *
@param {?} ngContentIndex\n *\nconstructor(\npublic type: CompileViewRootNodeType,\npublic expr:
o.Expression,\npublic ngContentIndex?: number) {\n}\n\nfunction
CompileViewRootNode_tsickle_Closure_declarations() {\n/** @type {?}
*\nCompileViewRootNode.prototype.type;\n/** @type {?} *\nCompileViewRootNode.prototype.expr;\n/**
@type {?} *\nCompileViewRootNode.prototype.ngContentIndex;\n}\n\n\nexport class CompileView implements
NameResolver {\npublic viewType: ViewType;\npublic viewQueries: Map<any, CompileQuery[]>;\npublic
viewChildren: o.Expression[] = [];\npublic nodes: CompileNode[] = [];\npublic rootNodes:
CompileViewRootNode[] = [];\npublic lastRenderNode: o.Expression = o.NULL_EXPR;\npublic viewContainers:
o.Expression[] = [];\npublic createMethod: CompileMethod;\npublic animationBindingsMethod:
CompileMethod;\npublic injectorGetMethod: CompileMethod;\npublic updateContentQueriesMethod:
CompileMethod;\npublic dirtyParentQueriesMethod: CompileMethod;\npublic updateViewQueriesMethod:
CompileMethod;\npublic detectChangesInInputsMethod: CompileMethod;\npublic
detectChangesRenderPropertiesMethod: CompileMethod;\npublic afterContentLifecyleCallbacksMethod:
CompileMethod;\npublic afterViewLifecyleCallbacksMethod: CompileMethod;\npublic destroyMethod:
CompileMethod;\npublic detachMethod: CompileMethod;\npublic methods: o.ClassMethod[] = [];\npublic
ctorStmts: o.Statement[] = [];\npublic fields: o.ClassField[] = [];\npublic getters: o.ClassGetter[] = [];\npublic
disposables: o.Expression[] = [];\npublic componentView: CompileView;\npublic purePipes = new Map<string,
CompilePipe>();\npublic pipes: CompilePipe[] = [];\npublic locals = new Map<string, o.Expression>();\npublic
className: string;\npublic classType: o.Type;\npublic classExpr: o.ReadVarExpr;\npublic literalArrayCount =
0;\npublic literalMapCount = 0;\npublic pipeCount = 0;\npublic componentContext: o.Expression;\n/**\n * @param
{?} component\n * @param {?} genConfig\n * @param {?} pipeMetas\n * @param {?} styles\n * @param {?}
animations\n * @param {?} viewIndex\n * @param {?} declarationElement\n * @param {?}
templateVariableBindings\n * @param {?} targetDependencies\n *\nconstructor(\npublic component:

```



```

CompileDirectiveMetadata,\npublic genConfig: CompilerConfig,\npublic pipeMetas:
CompilePipeSummary[],\npublic styles: o.Expression,\npublic animations:
AnimationEntryCompileResult[],\npublic viewIndex: number,\npublic declarationElement:
CompileElement,\npublic templateVariableBindings: string[[[]],\npublic targetDependencies:\n
Array<ViewClassDependency|ComponentFactoryDependency|DirectiveWrapperDependency> { \n
this.createMethod = new CompileMethod(this);\n this.animationBindingsMethod = new CompileMethod(this);\n
this.injectorGetMethod = new CompileMethod(this);\n this.updateContentQueriesMethod = new
CompileMethod(this);\n this.dirtyParentQueriesMethod = new CompileMethod(this);\n
this.updateViewQueriesMethod = new CompileMethod(this);\n this.detectChangesInInputsMethod = new
CompileMethod(this);\n this.detectChangesRenderPropertiesMethod = new CompileMethod(this);\n\n
this.afterContentLifecycleCallbacksMethod = new CompileMethod(this);\n
this.afterViewLifecycleCallbacksMethod = new CompileMethod(this);\n this.destroyMethod = new
CompileMethod(this);\n this.detachMethod = new CompileMethod(this);\n\n this.viewType =
getViewType(component, viewIndex);\n this.className = getViewClassName(component, viewIndex);\n
this.classType = o.expressionType(o.variable(this.className));\n this.classExpr = o.variable(this.className);\n
if (this.viewType === ViewType.COMPONENT || this.viewType === ViewType.HOST) {\n
this.componentView = this;\n } else {\n this.componentView =
this.declarationElement.view.componentView;\n } \n this.componentContext =\n
getPropertyInView(o.THIS_EXPR.prop('context'), this, this.componentView);\n\n const viewQueries = new
Map<any, CompileQuery[]>();\n if (this.viewType === ViewType.COMPONENT) {\n const directiveInstance
= o.THIS_EXPR.prop('context');\n this.component.viewQueries.forEach((queryMeta, queryIndex) => {\n
const propName = `_viewQuery_${tokenName(queryMeta.selectors[0])}_${queryIndex}`;\n const queryList =
createQueryList(queryMeta, directiveInstance, propName, this);\n const query = new
CompileQuery(queryMeta, queryList, directiveInstance, this);\n addQueryToTokenMap(viewQueries, query);\n
});\n } \n this.viewQueries = viewQueries;\n templateVariableBindings.forEach(\n (entry) => {\n
this.locals.set(entry[1], o.THIS_EXPR.prop('context').prop(entry[0])); });\n\n if (!this.declarationElement.isNull())
{\n this.declarationElement.setEmbeddedView(this);\n } \n } \n\n * @param {?} name\n * @param {?}
input\n * @param {?} args\n * @return {?} \n\n */\n\n callPipe(name: string, input: o.Expression, args: o.Expression[]):
o.Expression {\n return CompilePipe.call(this, name, [input].concat(args));\n } \n\n * @param {?} name\n *
@return {?} \n\n */\n\n getLocal(name: string): o.Expression {\n if (name == EventHandlerVars.event.name) {\n
return EventHandlerVars.event;\n } \n let /** @type {?} */ currView: CompileView = this;\n let /** @type {?} */
result = currView.locals.get(name);\n while (!result && isPresent(currView.declarationElement.view)) {\n
currView = currView.declarationElement.view;\n result = currView.locals.get(name);\n } \n if
(isPresent(result)) {\n return getPropertyInView(result, this, currView);\n } else {\n return null;\n } \n
} \n\n * @return {?} \n\n */\n\n afterNodes() {\n Array.from(this.viewQueries.values()).\n .forEach(\n
queries => queries.forEach(\n q => q.afterChildren(this.createMethod,
this.updateViewQueriesMethod));\n } \n } \n\n function CompileView_tsickle_Closure_declarations() {\n /** @type
 {?} */\n CompileView.prototype.viewType;\n /** @type {?} */\n CompileView.prototype.viewQueries;\n /** @type
 {?} */\n CompileView.prototype.viewChildren;\n /** @type {?} */\n CompileView.prototype.nodes;\n /** @type
 {?} */\n CompileView.prototype.rootNodes;\n /** @type {?} */\n CompileView.prototype.lastRenderNode;\n /**
 @type {?} */\n CompileView.prototype.viewContainers;\n /** @type {?} */\n
CompileView.prototype.createMethod;\n /** @type {?} */\n
CompileView.prototype.animationBindingsMethod;\n /** @type {?} */\n
CompileView.prototype.injectorGetMethod;\n /** @type {?} */\n
CompileView.prototype.updateContentQueriesMethod;\n /** @type {?} */\n
CompileView.prototype.dirtyParentQueriesMethod;\n /** @type {?} */\n
CompileView.prototype.updateViewQueriesMethod;\n /** @type {?} */\n
CompileView.prototype.detectChangesInInputsMethod;\n /** @type {?} */

```

```

*\nCompileView.prototype.detectChangesRenderPropertiesMethod;\n /** @type {?}
*\nCompileView.prototype.afterContentLifecycleCallbacksMethod;\n /** @type {?}
*\nCompileView.prototype.afterViewLifecycleCallbacksMethod;\n /** @type {?}
*\nCompileView.prototype.destroyMethod;\n /** @type {?} */\nCompileView.prototype.detachMethod;\n /**
@type {?} */\nCompileView.prototype.methods;\n /** @type {?} */\nCompileView.prototype.ctorStmts;\n /**
@type {?} */\nCompileView.prototype.fields;\n /** @type {?} */\nCompileView.prototype.getters;\n /** @type
{?} */\nCompileView.prototype.disposables;\n /** @type {?} */\nCompileView.prototype.componentView;\n /**
@type {?} */\nCompileView.prototype.purePipes;\n /** @type {?} */\nCompileView.prototype.pipes;\n /** @type
{?} */\nCompileView.prototype.locals;\n /** @type {?} */\nCompileView.prototype.className;\n /** @type {?}
*\nCompileView.prototype.classType;\n /** @type {?} */\nCompileView.prototype.classExpr;\n /** @type {?}
*\nCompileView.prototype.literalArrayCount;\n /** @type {?} */\nCompileView.prototype.literalMapCount;\n /**
@type {?} */\nCompileView.prototype.pipeCount;\n /** @type {?}
*\nCompileView.prototype.componentContext;\n /** @type {?} */\nCompileView.prototype.component;\n /**
@type {?} */\nCompileView.prototype.genConfig;\n /** @type {?} */\nCompileView.prototype.pipeMetas;\n /**
@type {?} */\nCompileView.prototype.styles;\n /** @type {?} */\nCompileView.prototype.animations;\n /**
@type {?} */\nCompileView.prototype.viewIndex;\n /** @type {?}
*\nCompileView.prototype.declarationElement;\n /** @type {?}
*\nCompileView.prototype.templateVariableBindings;\n /** @type {?}
*\nCompileView.prototype.targetDependencies;\n }\n\n/**\n * @param {?} component\n * @param {?}
embeddedTemplateIndex\n * @return {?} */\n * \nfunction getViewType(component: CompileDirectiveMetadata,
embeddedTemplateIndex: number): ViewType {\n if (embeddedTemplateIndex > 0) {\n return
ViewType.EMBEDDED;\n }\n\n if (component.isHost) {\n return ViewType.HOST;\n }\n\n return
ViewType.COMPONENT;\n }\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/compile_view.js.map

```

No license file was found, but licenses were detected in source scan.

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CAAC", "sourcesContent": ["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \* \n \* Use of this  
source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at  
<https://angular.io/license>\n \*\nimport { SummaryResolver } from '../summary\_resolver';\nimport  
{ ValueTransformer, visitValue } from '../util';\nimport { StaticSymbol, StaticSymbolCache } from  
'../static\_symbol';\n\nexport class ResolvedStaticSymbol {\n/\*\*\n \* @param {?} symbol\n \* @param {?} metadata\n \*\nconstructor(public symbol: StaticSymbol,\npublic metadata: any) {} }\n\nfunction  
ResolvedStaticSymbol\_tsickle\_Closure\_declarations() {\n/\*\* @type {?} \*\n \*\nResolvedStaticSymbol.prototype.symbol;\n/\*\* @type {?} \*\n \*\nResolvedStaticSymbol.prototype.metadata;\n}\n\n/\*\*\n \* The host of the SymbolResolverHost disconnects the  
implementation from TypeScript / other\n \* language\n \* services and from underlying file systems.\n \*\nexport  
interface StaticSymbolResolverHost {\n/\*\*\n \* Return a ModuleMetadata for the given module.\n \* Angular 2  
CLI will produce this metadata for a module whenever a .d.ts files is\n \* produced and the module has exported  
variables or classes with decorators. Module metadata can\n \* also be produced directly from TypeScript sources  
by using MetadataCollector in tools/metadata.\n \*\n \* @param modulePath is a string identifier for a module as  
an absolute path.\n \* @returns the metadata for the given module.\n \*\n getMetadataFor(modulePath: string):  
{[key: string]: any} [];\n\n /\*\*\n \* Converts a module name that is used in an `import` to a file path.\n \* I.e.\n \*  
`path/to/containingFile.ts` containing `import { ... } from 'module-name`.\n \*\n \*\n  
moduleNameToFilePath(moduleName: string, containingFile: string): string /\*|null\*/;\n}\n\nconst /\*\* @type {?} \*\n \*/  
SUPPORTED\_SCHEMA\_VERSION = 3;\n/\*\*\n \* This class is responsible for loading metadata per symbol,\n \*\n \* and normalizing references between symbols.\n \*\nexport class StaticSymbolResolver {\nprivate metadataCache  
= new Map<string, {[key: string]: any}>;\nprivate resolvedSymbols = new Map<StaticSymbol,  
ResolvedStaticSymbol>;\nprivate resolvedFilePaths = new Set<string>;\n/\*\*\n \* @param {?} host\n \* @param  
{?} staticSymbolCache\n \* @param {?} summaryResolver\n \* @param {?=} errorRecorder\n \*\nconstructor(\nprivate host: StaticSymbolResolverHost,\nprivate staticSymbolCache:  
StaticSymbolCache,\nprivate summaryResolver: SummaryResolver<StaticSymbol>,\nprivate errorRecorder?:  
(error: any, fileName: string) => void) {\n/\*\*\n \* @param {?} staticSymbol\n \* @return {?}\n \*\nresolveSymbol(staticSymbol: StaticSymbol): ResolvedStaticSymbol {\n if (staticSymbol.members.length > 0)  
{\n return this.\_resolveSymbolMembers(staticSymbol);\n }\n let /\*\* @type {?} \*/ result =  
this.\_resolveSymbolFromSummary(staticSymbol);\n if (!result) {\n // Note: Some users use libraries that were  
not compiled with ngc, i.e. they don't\n // have summaries, only .d.ts files. So we always need to check both, the  
summary\n // and metadata.\n this.\_createSymbolsOf(staticSymbol.filePath);\n result =  
this.resolvedSymbols.get(staticSymbol);\n }\n return result;\n }\n/\*\*\n \* @param {?} staticSymbol\n \* @return  
{?}\n \*\nprivate \_resolveSymbolMembers(staticSymbol: StaticSymbol): ResolvedStaticSymbol {\n const /\*\*  
@type {?} \*/ members = staticSymbol.members;\n const /\*\* @type {?} \*/ baseResolvedSymbol =\n

```

this.resolveSymbol(this.getStaticSymbol(staticSymbol.filePath, staticSymbol.name));\n  if (!baseResolvedSymbol)
{\n    return null;\n  }\n  const /** @type {?} */ baseMetadata = baseResolvedSymbol.metadata;\n  if
(baseMetadata instanceof StaticSymbol) {\n    return new ResolvedStaticSymbol(\n      staticSymbol,
this.getStaticSymbol(baseMetadata.filePath, baseMetadata.name, members));\n  } else if (baseMetadata &&
baseMetadata.__symbolic === 'class') {\n    if (baseMetadata.statics && members.length === 1) {\n      return
new ResolvedStaticSymbol(staticSymbol, baseMetadata.statics[members[0]]);\n    } } else {\n    let /** @type
 {?} */ value = baseMetadata;\n    for (let /** @type {?} */ i = 0; i < members.length && value; i++) {\n      value
= value[members[i]];\n    }\n    return new ResolvedStaticSymbol(staticSymbol, value);\n  }\n  return null;\n
}\n/**\n * @param {?} staticSymbol\n * @return {?} *\nprivate _resolveSymbolFromSummary(staticSymbol:
StaticSymbol): ResolvedStaticSymbol {\n  const /** @type {?} */ summary =
this.summaryResolver.resolveSummary(staticSymbol);\n  return summary ? new
ResolvedStaticSymbol(staticSymbol, summary.metadata) : null;\n }\n/**\n * getStaticSymbol produces a Type
whose metadata is known but whose implementation is not loaded.\n * All types passed to the StaticResolver
should be pseudo-types returned by this method.\n * *\n * @param {?} declarationFile the absolute path of the file
where the symbol is declared\n * @param {?} name the name of the type.\n * @param {?=} members\n * @return
 {?} *\nprivate _getStaticSymbol(declarationFile: string, name: string, members?: string[]): StaticSymbol {\n  return
this.staticSymbolCache.get(declarationFile, name, members);\n }\n/**\n * @param {?} filePath\n * @return {?} *\nprivate _getSymbolsOf(filePath: string): StaticSymbol[] {\n  // Note: Some users use libraries that were not compiled
with ngc, i.e. they don't\n  // have summaries, only .d.ts files. So we always need to check both, the summary\n  //
and metadata.\n  let /** @type {?} */ symbols = new
Set<StaticSymbol>(this.summaryResolver.getSymbolsOf(filePath));\n  this._createSymbolsOf(filePath);\n
this.resolvedSymbols.forEach((resolvedSymbol) => {\n    if (resolvedSymbol.symbol.filePath === filePath) {\n
symbols.add(resolvedSymbol.symbol);\n    }\n  });\n  return Array.from(symbols);\n }\n/**\n * @param {?}
filePath\n * @return {?} *\nprivate _createSymbolsOf(filePath: string) {\n  if
(this.resolvedFilePaths.has(filePath)) {\n    return;\n  }\n  this.resolvedFilePaths.add(filePath);\n  const /**
@type {?} */ resolvedSymbols: ResolvedStaticSymbol[] = [];\n  const /** @type {?} */ metadata =
this.getModuleMetadata(filePath);\n  if (metadata['metadata']) {\n    // handle direct declarations of the symbol\n
Object.keys(metadata['metadata']).forEach((symbolName) => {\n      const /** @type {?} */ symbolMeta =
metadata['metadata'][symbolName];\n      resolvedSymbols.push(\n
this.createResolvedSymbol(this.getStaticSymbol(filePath, symbolName), symbolMeta));\n    });\n  }\n  //
handle the symbols in one of the re-export location\n  if (metadata['exports']) {\n    for (const /** @type {?} */
moduleExport of metadata['exports']) {\n      // handle the symbols in the list of explicitly re-exported symbols.\n
if (moduleExport.export) {\n        moduleExport.export.forEach((exportSymbol: any) => {\n          let /** @type
 {?} */ symbolName: string;\n          if (typeof exportSymbol === 'string') {\n            symbolName =
exportSymbol;\n          } else {\n            symbolName = exportSymbol.as;\n          }\n          let /** @type {?} */
symName = symbolName;\n          if (typeof exportSymbol !== 'string') {\n            symName =
exportSymbol.name;\n          }\n          const /** @type {?} */ resolvedModule =
this.resolveModule(moduleExport.from, filePath);\n          if (resolvedModule) {\n            const /** @type {?} */
targetSymbol = this.getStaticSymbol(resolvedModule, symName);\n            const /** @type {?} */ sourceSymbol
= this.getStaticSymbol(filePath, symbolName);\n            resolvedSymbols.push(new
ResolvedStaticSymbol(sourceSymbol, targetSymbol));\n          }\n        });\n      } else {\n        // handle the
symbols via export * directives.\n        const /** @type {?} */ resolvedModule =
this.resolveModule(moduleExport.from, filePath);\n        if (resolvedModule) {\n          const /** @type {?} */
nestedExports = this.getSymbolsOf(resolvedModule);\n          nestedExports.forEach((targetSymbol) => {\n
const /** @type {?} */ sourceSymbol = this.getStaticSymbol(filePath, targetSymbol.name);\n
resolvedSymbols.push(new ResolvedStaticSymbol(sourceSymbol, targetSymbol));\n          });\n        }\n      }\n
}\n  }\n  resolvedSymbols.forEach(\n    (resolvedSymbol) =>
this.resolvedSymbols.set(resolvedSymbol.symbol, resolvedSymbol);\n  });\n }\n/**\n * @param {?} sourceSymbol\n *

```

```

@param {?} metadata\n * @return {?} \n *\nprivate createResolvedSymbol(sourceSymbol: StaticSymbol,
metadata: any): ResolvedStaticSymbol {\n  const /** @type {?} */ self = this;\n\n  class ReferenceTransformer
extends ValueTransformer {\n/**\n * @param {?} map\n * @param {?} functionParams\n * @return {?} \n
*\nvisitStringMap(map: {[key: string]: any}, functionParams: string[]): any {\n  const /** @type {?} */
symbolic = map['__symbolic'];\n  if (symbolic === 'function') {\n    const /** @type {?} */ oldLen =
functionParams.length;\n    functionParams.push(...(map['parameters'] || []));\n    const /** @type {?} */
result = super.visitStringMap(map, functionParams);\n    functionParams.length = oldLen;\n    return
result;\n  } else if (symbolic === 'reference') {\n    const /** @type {?} */ module = map['module'];\n
const /** @type {?} */ name = map['name'];\n    if (!name) {\n      return null;\n    }\n    let /** @type
{?} */ filePath: string;\n    if (module) {\n      filePath = self.resolveModule(module,
sourceSymbol.filePath);\n    } else if (!filePath) {\n      return {\n        __symbolic: 'error',\n
message: `Could not resolve ${module} relative to ${sourceSymbol.filePath}`;\n      };\n    } else
{\n      const /** @type {?} */ isFunctionParam = functionParams.indexOf(name) >= 0;\n      if
(!isFunctionParam) {\n        filePath = sourceSymbol.filePath;\n      } else if (filePath) {\n
return self.getStaticSymbol(filePath, name);\n      } else {\n        // reference to a function parameter\n
return { __symbolic: 'reference', name: name};\n      } else {\n        return super.visitStringMap(map,
functionParams);\n      }\n    }\n  }\n\n  const /** @type {?} */ transformedMeta = visitValue(metadata, new
ReferenceTransformer(), []);\n  return new ResolvedStaticSymbol(sourceSymbol, transformedMeta);\n } \n/**\n *
@param {?} error\n * @param {?} context\n * @param {?}=? path\n * @return {?} \n *\nprivate reportError(error:
Error, context: StaticSymbol, path?: string) {\n  if (this.errorRecorder) {\n    this.errorRecorder(error, (context &&
context.filePath) || path);\n  } else {\n    throw error;\n  }\n } \n/**\n * @param {?} module an absolute path to a
module file.\n * @return {?} \n *\nprivate getModuleMetadata(module: string): {[key: string]: any} {\n  let /**
@type {?} */ moduleMetadata = this.metadataCache.get(module);\n  if (!moduleMetadata) {\n    const /** @type
{?} */ moduleMetadatas = this.host.getMetadataFor(module);\n    if (moduleMetadatas) {\n      let /** @type {?}
*/ maxVersion = -1;\n      moduleMetadatas.forEach((md) => {\n        if (md['version'] > maxVersion) {\n
maxVersion = md['version'];\n        moduleMetadata = md;\n      });\n    }\n    if (!moduleMetadata)
{\n      moduleMetadata = {\n        __symbolic: 'module', version: SUPPORTED_SCHEMA_VERSION, module:
module, metadata: {};\n      }\n      if (moduleMetadata['version'] != SUPPORTED_SCHEMA_VERSION) {\n
const /** @type {?} */ errorMessage = moduleMetadata['version'] == 2 ?\n        `Unsupported metadata version
${moduleMetadata['version']} for module ${module}. This module should be compiled with a newer version of
ngc` :\n        `Metadata version mismatch for module ${module}, found version ${moduleMetadata['version']},
expected ${SUPPORTED_SCHEMA_VERSION}`;\n      this.reportError(new Error(errorMessage), null);\n    }\n    this.metadataCache.set(module, moduleMetadata);\n  }\n  return moduleMetadata;\n } \n/**\n * @param {?}
module\n * @param {?} symbolName\n * @param {?}=? containingFile\n * @return {?} \n
*\nprivate getSymbolByModule(module: string, symbolName: string, containingFile?: string): StaticSymbol {\n  const
/** @type {?} */ filePath = this.resolveModule(module, containingFile);\n  if (!filePath) {\n    throw new
Error(`Could not resolve module ${module} relative to ${containingFile}`);\n  }\n  return
this.getStaticSymbol(filePath, symbolName);\n } \n/**\n * @param {?} module\n * @param {?} containingFile\n *
@return {?} \n *\nprivate resolveModule(module: string, containingFile: string): string {\n  try {\n    return
this.host.moduleNameToFileName(module, containingFile);\n  } catch (/** @type {?} */ e) {\n
console.error(`Could not resolve module '${module}' relative to file ${containingFile}`);\n    this.reportError(new
Error(e, null, containingFile);\n  }\n }\n\nfunction StaticSymbolResolver_tsickle_Closure_declarations() {\n /**
@type {?} */\n *\nStaticSymbolResolver.prototype.metadataCache;\n /** @type {?} */\n *\nStaticSymbolResolver.prototype.resolvedSymbols;\n /** @type {?} */\n *\nStaticSymbolResolver.prototype.resolvedFilePaths;\n /** @type {?} */\n *\nStaticSymbolResolver.prototype.host;\n /** @type {?} */\n *\nStaticSymbolResolver.prototype.staticSymbolCache;\n /** @type {?} */\n *\nStaticSymbolResolver.prototype.summaryResolver;\n /** @type {?} */

```





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CAAC,GAAG,CAAC,MAAM,EAAE,CAAC,CAAC;AACIC,CAAC", "sourcesContent":["/**\n *
Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n * \n\nimport {Inject, OpaqueToken, Optional,
SchemaMetadata} from '@angular/core';\nimport {CompileDirectiveMetadata, CompileDirectiveSummary,
CompilePipeSummary, CompileTemplateSummary, CompileTokenMetadata, CompileTypeMetadata,
identifierName} from './compile_metadata';\nimport {Parser} from './expression_parser/parser';\nimport
{isPresent} from './facade/lang';\nimport {I18NHtmlParser} from './i18n/i18n_html_parser';\nimport {Identifiers,
createIdentifierToken, identifierToken} from './identifiers';\nimport {CompilerInjectable} from
'./injectable';\nimport * as html from './ml_parser/ast';\nimport {ParseTreeResult} from
'./ml_parser/html_parser';\nimport {expandNodes} from './ml_parser/icu_ast_expander';\nimport
{InterpolationConfig} from './ml_parser/interpolation_config';\nimport {splitNsName} from
'./ml_parser/tags';\nimport {ParseError, ParseErrorLevel, ParseSourceSpan} from './parse_util';\nimport {Console}
from './private_import_core';\nimport {ProviderElementContext, ProviderViewContext} from
'./provider_analyzer';\nimport {ElementSchemaRegistry} from './schema/element_schema_registry';\nimport
{CssSelector, SelectorMatcher} from './selector';\nimport {isStyleUrlResolvable} from
'./style_url_resolver';\nimport {SyntaxError} from './util';\nimport {BindingParser, BoundProperty} from
'./binding_parser';\nimport {AttrAst, BoundDirectivePropertyAst, BoundElementPropertyAst, BoundEventAst,
BoundTextAst, DirectiveAst, ElementAst, EmbeddedTemplateAst, NgContentAst, PropertyBindingType,
ReferenceAst, TemplateAst, TemplateAstVisitor, TextAst, VariableAst, templateVisitAll} from
'./template_ast';\nimport {PreparsedElementType, preparsedElement} from './template_preparser';\n\n// Group 1 =
\"bind-\" \n// Group 2 = \"let-\" \n// Group 3 = \"ref-/#\" \n// Group 4 = \"on-\" \n// Group 5 = \"bindon-\" \n// Group 6 =
\"@\" \n// Group 7 = the identifier after \"bind-\", \"let-\", \"ref-/#\", \"on-\", \"bindon-\" or \"@\" \n// Group 8 =
identifier inside [] \n// Group 9 = identifier inside () \nconst /** @type {?} */
BIND_NAME_REGEXP =\n  /^(?:(?:?:(bind-)|(let-)|(ref-/#)|(on-)|(bindon-
)|(@)))(.+)$/; \nconst /** @type {?} */ KW_BIND_IDX = 1; \nconst
/** @type {?} */ KW_LET_IDX = 2; \nconst /** @type {?} */ KW_REF_IDX = 3; \nconst /** @type {?} */
KW_ON_IDX = 4; \nconst /** @type {?} */ KW_BINDON_IDX = 5; \nconst /** @type {?} */ KW_AT_IDX =
6; \nconst /** @type {?} */ IDENT_KW_IDX = 7; \nconst /** @type {?} */ IDENT_BANANA_BOX_IDX =
8; \nconst /** @type {?} */ IDENT_PROPERTY_IDX = 9; \nconst /** @type {?} */ IDENT_EVENT_IDX =
10; \nconst /** @type {?} */ TEMPLATE_ELEMENT = 'template'; \nconst /** @type {?} */ TEMPLATE_ATTR
= 'template'; \nconst /** @type {?} */ TEMPLATE_ATTR_PREFIX = '*'; \nconst /** @type {?} */ CLASS_ATTR
= 'class'; \n\nconst /** @type {?} */ TEXT_CSS_SELECTOR = CssSelector.parse('*')[0]; \n\n/** \n * Provides an
array of { @link TemplateAstVisitor}s which will be used to transform \n * parsed templates before compilation is
invoked, allowing custom expression syntax \n * and other advanced transformations. \n * \n * This is currently an
internal-only feature and not meant for general use. \n */ \nexport const /** @type {?} */
TEMPLATE_TRANSFORMS = new OpaqueToken('TemplateTransforms'); \n\nexport class TemplateParseError
extends ParseError {\n  /** \n * @param {?} message \n * @param {?} span \n * @param {?} level \n
*/ \nconstructor(message: string, span: ParseSourceSpan, level: ParseErrorLevel) {\n  super(span, message,
level); \n } \n} \n\nexport class TemplateParseResult {\n  /** \n * @param {=} templateAst \n * @param {=} errors \n
*/ \nconstructor(public templateAst?: TemplateAst[], \npublic errors?: ParseError[]) {} \n} \n\nfunction
TemplateParseResult_tsickle_Closure_declarations() {\n  /** @type {?} */
*/ \nTemplateParseResult.prototype.templateAst; \n\n /** @type {?} */
*/ \nTemplateParseResult.prototype.errors; \n} \n\n\n@CompilerInjectable() \nexport class TemplateParser {\n  /** \n *
@param {?} _exprParser \n * @param {?} _schemaRegistry \n * @param {?} _htmlParser \n * @param {?}
_console \n * @param {?} transforms \n */ \nconstructor(\nprivate _exprParser: Parser, \nprivate _schemaRegistry:
ElementSchemaRegistry, \nprivate _htmlParser: I18NHtmlParser, \nprivate _console: Console, \npublic transforms:

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TemplateAstVisitor[]) {\n/**\n * @param {?} component\n * @param {?} template\n * @param {?} directives\n * @param {?} pipes\n * @param {?} schemas\n * @param {?} templateUrl\n * @return {?}\n */\nparse(\n component: CompileDirectiveMetadata, template: string, directives: CompileDirectiveSummary[],\n pipes: CompilePipeSummary[], schemas: SchemaMetadata[], templateUrl: string): TemplateAst[] {\n  const /** @type {?} */ result = this.tryParse(component, template, directives, pipes, schemas, templateUrl);\n  const /** @type {?} */ warnings = result.errors.filter(error => error.level === ParseErrorLevel.WARNING);\n  const /** @type {?} */ errors = result.errors.filter(error => error.level === ParseErrorLevel.FATAL);\n  if (warnings.length > 0) {\n    this._console.warn(`Template parse warnings:\n${warnings.join('\n')}`);\n  }\n  if (errors.length > 0) {\n    const /** @type {?} */ errorString = errors.join('\n');\n    throw new SyntaxError(`Template parse errors:\n${errorString}`);\n  }\n  return result.templateAst;\n } \n/**\n * @param {?} component\n * @param {?} template\n * @param {?} directives\n * @param {?} pipes\n * @param {?} schemas\n * @param {?} templateUrl\n * @return {?}\n */\ntryParse(\n component: CompileDirectiveMetadata, template: string, directives: CompileDirectiveSummary[],\n pipes: CompilePipeSummary[], schemas: SchemaMetadata[], templateUrl: string): TemplateParseResult {\n  return this.tryParseHtml(\n this.expandHtml(this._htmlParser.parse(\n template, templateUrl, true, this.getInterpolationConfig(component))),\n component, template, directives, pipes, schemas, templateUrl);\n } \n/**\n * @param {?} htmlAstWithErrors\n * @param {?} component\n * @param {?} template\n * @param {?} directives\n * @param {?} pipes\n * @param {?} schemas\n * @param {?} templateUrl\n * @return {?}\n */\ntryParseHtml(\n htmlAstWithErrors: ParseTreeResult, component: CompileDirectiveMetadata, template: string,\n directives: CompileDirectiveSummary[], pipes: CompilePipeSummary[], schemas: SchemaMetadata[],\n templateUrl: string): TemplateParseResult {\n  let /** @type {?} */ result: TemplateAst[];\n  const /** @type {?} */ errors = htmlAstWithErrors.errors;\n  if (htmlAstWithErrors.rootNodes.length > 0) {\n    const /** @type {?} */ uniqDirectives = removeSummaryDuplicates(directives);\n    const /** @type {?} */ uniqPipes = removeSummaryDuplicates(pipes);\n    const /** @type {?} */ providerViewContext = new ProviderViewContext(component, htmlAstWithErrors.rootNodes[0].sourceSpan);\n    let /** @type {?} */ interpolationConfig: InterpolationConfig;\n    if (component.template && component.template.interpolation) {\n      interpolationConfig = {\n        start: component.template.interpolation[0],\n        end: component.template.interpolation[1]\n      };\n    }\n    const /** @type {?} */ bindingParser = new BindingParser(\n this._exprParser, interpolationConfig, this._schemaRegistry, uniqPipes, errors);\n    const /** @type {?} */ parseVisitor = new TemplateParseVisitor(\n providerViewContext, uniqDirectives, bindingParser, this._schemaRegistry, schemas, errors);\n    result = html.visitAll(parseVisitor, htmlAstWithErrors.rootNodes, EMPTY_ELEMENT_CONTEXT);\n    errors.push(...providerViewContext.errors);\n  } else {\n    result = [];\n  }\n  this._assertNoReferenceDuplicationOnTemplate(result, errors);\n  if (errors.length > 0) {\n    return new TemplateParseResult(result, errors);\n  }\n  if (isPresent(this.transforms)) {\n    this.transforms.forEach(\n (transform: TemplateAstVisitor) => { result = templateVisitAll(transform, result); });\n  }\n  return new TemplateParseResult(result, errors);\n } \n/**\n * @param {?} htmlAstWithErrors\n * @param {=} forced\n * @return {?}\n */\nnextExpandHtml(htmlAstWithErrors: ParseTreeResult, forced: boolean = false): ParseTreeResult {\n  const /** @type {?} */ errors: ParseError[] = htmlAstWithErrors.errors;\n  if (errors.length === 0 || forced) {\n    // Transform ICU messages to angular directives\n    const /** @type {?} */ expandedHtmlAst = expandNodes(htmlAstWithErrors.rootNodes);\n    errors.push(...expandedHtmlAst.errors);\n    htmlAstWithErrors = new ParseTreeResult(expandedHtmlAst.nodes, errors);\n  }\n  return htmlAstWithErrors;\n } \n/**\n * @param {?} component\n * @return {?}\n */\ngetInterpolationConfig(component: CompileDirectiveMetadata): InterpolationConfig {\n  if (component.template) {\n    return InterpolationConfig.fromArray(component.template.interpolation);\n  }\n } \n/**\n * @param {?} result\n * @param {?} errors\n * @return {?}\n */\nassertNoReferenceDuplicationOnTemplate(result: TemplateAst[], errors: TemplateParseError[]):\n  void {\n    const /** @type {?} */ existingReferences: string[] = [];\n  }

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result.filter(element => !(/** @type {?} */((<any>element))).references)\n      .forEach(element => (/** @type
{?} */((<any>element))).references.forEach((reference: ReferenceAst) => {\n        const /** @type {?} */ name =
reference.name;\n        if (existingReferences.indexOf(name) < 0) {\n          existingReferences.push(name);\n        } else {\n          const /** @type {?} */ error = new TemplateParseError(\n            `Reference \"#${name}\" is
defined several times`, reference.sourceSpan,\n            ParseErrorLevel.FATAL);\n          errors.push(error);\n        }
});\n    }\n  }/** @nocollapse */\n  static ctorParameters: () => ({type: any, decorators?:
DecoratorInvocation[]|null})[] = () => [\n    {type: Parser, },\n    {type: ElementSchemaRegistry, },\n    {type:
I18NHtmlParser, },\n    {type: Console, },\n    {type: Array, decorators: [{ type: Optional }, { type: Inject, args:
[TEMPLATE_TRANSFORMS, ] }, ]},\n  ],\n  \n  \n  function TemplateParser_tsickle_Closure_declarations() {\n    /**\n    * @nocollapse\n    * @type {?} */\n    TemplateParser.ctorParameters;\n    /** @type {?} */\n    TemplateParser.prototype._exprParser;\n    /** @type {?} */\n    TemplateParser.prototype._schemaRegistry;\n    /**
@type {?} */\n    TemplateParser.prototype._htmlParser;\n    /** @type {?} */\n    TemplateParser.prototype._console;\n    /**
@type {?} */\n    TemplateParser.prototype.transforms;\n  }\n  \n  \n  class TemplateParseVisitor implements
html.Visitor {\n    selectorMatcher = new SelectorMatcher();\n    directivesIndex = new
Map<CompileDirectiveSummary, number>();\n    ngContentCount: number = 0;\n    /**\n    * @param {?} */\n    providerViewContext\n    * @param {?} */ directives\n    * @param {?} */ _bindingParser\n    * @param {?} */
_schemaRegistry\n    * @param {?} */ _schemas\n    * @param {?} */ _targetErrors\n    * ^\n    constructor(\n    public
providerViewContext: ProviderViewContext, directives: CompileDirectiveSummary[],\n    private _bindingParser:
BindingParser,\n    private _schemaRegistry: ElementSchemaRegistry,\n    private _schemas:
SchemaMetadata[],\n    private _targetErrors: TemplateParseError[]) {\n      directives.forEach((directive, index) => {\n
        const selector = CssSelector.parse(directive.selector);\n        this.selectorMatcher.addSelectable(selector,
directive);\n        this.directivesIndex.set(directive, index);\n      });\n    }\n    /**\n    * @param {?} */ expansion\n    * @param
{?} */ context\n    * @return {?} */\n    * ^\n    visitExpansion(expansion: html.Expansion, context: any): any { return null;
}\n    /**\n    * @param {?} */ expansionCase\n    * @param {?} */ context\n    * @return {?} */\n    * ^\n    visitExpansionCase(expansionCase: html.ExpansionCase, context: any): any { return null; }\n    /**\n    * @param
{?} */ text\n    * @param {?} */ parent\n    * @return {?} */\n    * ^\n    visitText(text: html.Text, parent: ElementContext): any {\n      const /**
@type {?} */ ngContentIndex = parent.findNgContentIndex(TEXT_CSS_SELECTOR);\n      const /**
@type {?} */ expr = this._bindingParser.parseInterpolation(text.value, text.sourceSpan);\n      if (isPresent(expr)) {\n        return new BoundTextAst(expr, ngContentIndex, text.sourceSpan);\n      } else {\n        return new
TextAst(text.value, ngContentIndex, text.sourceSpan);\n      }\n    }\n    /**\n    * @param {?} */ attribute\n    * @param {?} */
context\n    * @return {?} */\n    * ^\n    visitAttribute(attribute: html.Attribute, context: any): any {\n      return new
AttrAst(attribute.name, attribute.value, attribute.sourceSpan);\n    }\n    /**\n    * @param {?} */ comment\n    * @param {?} */
context\n    * @return {?} */\n    * ^\n    visitComment(comment: html.Comment, context: any): any { return null; }\n    /**\n    * @param
{?} */ element\n    * @param {?} */ parent\n    * @return {?} */\n    * ^\n    visitElement(element: html.Element, parent:
ElementContext): any {\n      const /** @type {?} */ nodeName = element.name;\n      const /** @type {?} */
preparsedElement = preparseElement(element);\n      if (preparsedElement.type === PreparedElementType.SCRIPT
||\n        preparsedElement.type === PreparedElementType.STYLE) {\n        // Skipping <script> for security
reasons\n        // Skipping <style> as we already processed them\n        // in the StyleCompiler\n        return null;\n      }\n      if (preparsedElement.type === PreparedElementType.STYLESHEET &&\n        isStyleUrlResolvable(preparsedElement.hrefAttr)) {\n        // Skipping stylesheets with either relative urls or package
scheme as we already processed\n        // them in the StyleCompiler\n        return null;\n      }\n      const /** @type {?} */
matchableAttrs: string[][] = [];\n      const /** @type {?} */ elementOrDirectiveProps: BoundProperty[] = [];\n      const /** @type {?} */ elementOrDirectiveRefs: ElementOrDirectiveRef[] = [];\n      const /** @type {?} */
elementVars: VariableAst[] = [];\n      const /** @type {?} */ events: BoundEventAst[] = [];\n      const /** @type
{?} */ templateElementOrDirectiveProps: BoundProperty[] = [];\n      const /** @type {?} */
templateMatchableAttrs: string[][] = [];\n      const /** @type {?} */ templateElementVars: VariableAst[] = [];\n      let /** @type {?} */ hasInlineTemplates = false;\n      const /** @type {?} */ attrs: AttrAst[] = [];\n      const /**
@type {?} */ lcElName = splitNsName(nodeName.toLowerCase())[1];\n      const /** @type {?} */

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isTemplateElement = lcElName === TEMPLATE_ELEMENT;\n\n element.attrs.forEach(attr => {\n  const /**
  @type {?} */ hasBinding = this._parseAttr(\n    isTemplateElement, attr, matchableAttrs,
  elementOrDirectiveProps, events,\n    elementOrDirectiveRefs, elementVars);\n\n  let /** @type {?} */
  templateBindingsSource: string|undefined = undefined;\n  let /** @type {?} */ prefixToken: string|undefined =
  undefined;\n  if (this._normalizeAttributeName(attr.name) === TEMPLATE_ATTR) {\n
  templateBindingsSource = attr.value;\n  } else if (attr.name.startsWith(TEMPLATE_ATTR_PREFIX)) {\n
  templateBindingsSource = attr.value;\n  prefixToken =
  attr.name.substring(TEMPLATE_ATTR_PREFIX.length); // remove the star\n  }\n  const /** @type {?} */
  hasTemplateBinding = isPresent(templateBindingsSource);\n  if (hasTemplateBinding) {\n  if
  (hasInlineTemplates) {\n    this._reportError(\n      `Can't have multiple template bindings on one element.
  Use only one attribute named 'template' or prefixed with *`,\n      attr.sourceSpan);\n  }\n
  hasInlineTemplates = true;\n  this._bindingParser.parseInlineTemplateBinding(\n    attr.name, prefixToken,
  templateBindingsSource, attr.sourceSpan, templateMatchableAttrs,\n    templateElementOrDirectiveProps,
  templateElementVars);\n  }\n\n  if (!hasBinding && !hasTemplateBinding) {\n    // don't include the
  bindings as attributes as well in the AST\n    attrs.push(this.visitAttribute(attr, null));\n
  matchableAttrs.push([attr.name, attr.value]);\n  }\n  });\n\n  const /** @type {?} */ elementCssSelector =
  createElementCssSelector(nodeName, matchableAttrs);\n  const { directives: directiveMetas, matchElement } =\n
  this._parseDirectives(this.selectorMatcher, elementCssSelector);\n  const /** @type {?} */ references:
  ReferenceAst[] = [];\n  const /** @type {?} */ directiveAsts = this._createDirectiveAsts(\n
  isTemplateElement, element.name, directiveMetas, elementOrDirectiveProps,\n  elementOrDirectiveRefs,
  element.sourceSpan, references);\n  const /** @type {?} */ elementProps: BoundElementPropertyAst[] =\n
  this._createElementPropertyAsts(element.name, elementOrDirectiveProps, directiveAsts);\n  const /** @type {?} */
  isViewRoot = parent.isTemplateElement || hasInlineTemplates;\n  const /** @type {?} */ providerContext =
  new ProviderElementContext(\n    this.providerViewContext, parent.providerContext, isViewRoot, directiveAsts,
  attrs,\n    references, element.sourceSpan);\n  const /** @type {?} */ children = html.visitAll(\n
  preparsedElement.nonBindable ? NON_BINDABLE_VISITOR : this, element.children,\n
  ElementContext.create(\n    isTemplateElement, directiveAsts,\n    isTemplateElement ?
  parent.providerContext : providerContext));\n  providerContext.afterElement();\n  // Override the actual selector
  when the `ngProjectAs` attribute is provided\n  const /** @type {?} */ projectionSelector =
  isPresent(preparsedElement.projectAs) ?\n    CssSelector.parse(preparsedElement.projectAs)[0] :\n
  elementCssSelector;\n  const /** @type {?} */ ngContentIndex =
  parent.findNgContentIndex(projectionSelector);\n  let /** @type {?} */ parsedElement: TemplateAst;\n\n  if
  (preparsedElement.type === PreparsedElementType.NG_CONTENT) {\n    if (element.children &&
  !element.children.every(_isEmptyTextNode)) {\n      this._reportError(`<ng-content> element cannot have
  content.`, element.sourceSpan);\n    }\n    parsedElement = new NgContentAst(\n      this.ngContentCount++,
  hasInlineTemplates ? null : ngContentIndex, element.sourceSpan);\n  } else if (isTemplateElement) {\n
  this._assertAllEventsPublishedByDirectives(directiveAsts, events);\n
  this._assertNoComponentsNorElementBindingsOnTemplate(\n    directiveAsts, elementProps,
  element.sourceSpan);\n\n  parsedElement = new EmbeddedTemplateAst(\n    attrs, events, references,
  elementVars, providerContext.transformedDirectiveAsts,\n    providerContext.transformProviders,
  providerContext.transformedHasViewContainer, children,\n    hasInlineTemplates ? null : ngContentIndex,
  element.sourceSpan);\n  } else {\n    this._assertElementExists(matchElement, element);\n
  this._assertOnlyOneComponent(directiveAsts, element.sourceSpan);\n\n  const /** @type {?} */ ngContentIndex
  =\n    hasInlineTemplates ? null : parent.findNgContentIndex(projectionSelector);\n  parsedElement = new
  ElementAst(\n    nodeName, attrs, elementProps, events, references,\n
  providerContext.transformedDirectiveAsts, providerContext.transformProviders,\n
  providerContext.transformedHasViewContainer, children,\n    hasInlineTemplates ? null : ngContentIndex,
  element.sourceSpan, element.endSourceSpan);\n\n  this._findComponentDirectives(directiveAsts)\n

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targetMatchableAttrs, targetProps);\n    this._parseAssignmentEvent(\n        bindParts[IDENT_KW_IDX],
value, srcSpan, targetMatchableAttrs, targetEvents);\n\n    } else if (bindParts[KW_AT_IDX]) {\n
this._bindingParser.parseLiteralAttr(\n        name, value, srcSpan, targetMatchableAttrs, targetProps);\n\n    }
else if (bindParts[IDENT_BANANA_BOX_IDX]) {\n    this._bindingParser.parsePropertyBinding(\n
bindParts[IDENT_BANANA_BOX_IDX], value, false, srcSpan, targetMatchableAttrs,\n        targetProps);\n
this._parseAssignmentEvent(\n        bindParts[IDENT_BANANA_BOX_IDX], value, srcSpan,
targetMatchableAttrs, targetEvents);\n\n    } else if (bindParts[IDENT_PROPERTY_IDX]) {\n
this._bindingParser.parsePropertyBinding(\n        bindParts[IDENT_PROPERTY_IDX], value, false, srcSpan,
targetMatchableAttrs,\n        targetProps);\n\n    } else if (bindParts[IDENT_EVENT_IDX]) {\n
this._bindingParser.parseEvent(\n        bindParts[IDENT_EVENT_IDX], value, srcSpan, targetMatchableAttrs,
targetEvents);\n    }\n    } else {\n    hasBinding = this._bindingParser.parsePropertyInterpolation(\n        name,
value, srcSpan, targetMatchableAttrs, targetProps);\n    }\n\n    if (!hasBinding) {\n
this._bindingParser.parseLiteralAttr(name, value, srcSpan, targetMatchableAttrs, targetProps);\n    }\n\n    return
hasBinding;\n    }\n\n    /**\n     * @param {string} attrName\n     * @return {string} normalized attribute name\n     */
private _normalizeAttributeName(attrName: string): string {\n    return /^data-/.test(attrName) ? attrName.substring(5) : attrName;\n    }\n\n    /**\n     * @param {string} identifier\n     * @param {string} value\n     * @param {string} sourceSpan\n     * @param {string} targetVars\n     * @return {string}
parsed variable\n     */\n    private _parseVariable(identifier: string, value: string, sourceSpan: ParseSourceSpan, targetVars:
VariableAst[]): VariableAst[] {\n    if (identifier.indexOf('-') > -1) {\n        this._reportError(`\"-\" is not allowed in variable names`,
sourceSpan);\n    }\n\n    targetVars.push(new VariableAst(identifier, value, sourceSpan));\n    }\n\n    /**\n     * @param
{string} identifier\n     * @param {string} value\n     * @param {string} sourceSpan\n     * @param {string} targetRefs\n     * @return {string}
parsed reference\n     */\n    private _parseReference(identifier: string, value: string, sourceSpan: ParseSourceSpan, targetRefs:
ElementOrDirectiveRef[]): ElementOrDirectiveRef[] {\n    if (identifier.indexOf('-') > -1) {\n        this._reportError(`\"-\" is not allowed in
reference names`, sourceSpan);\n    }\n\n    targetRefs.push(new ElementOrDirectiveRef(identifier, value,
sourceSpan));\n    }\n\n    /**\n     * @param {string} name\n     * @param {string} expression\n     * @param {string} sourceSpan\n     *
@param {string} targetMatchableAttrs\n     * @param {string} targetEvents\n     * @return {string}
parsed assignment event\n     */\n    private _parseAssignmentEvent(name: string, expression: string, sourceSpan: ParseSourceSpan,
targetMatchableAttrs: string[][], targetEvents: BoundEventAst[]) {\n    this._bindingParser.parseEvent(\n
`${name}Change`, `${expression}=${event}`, sourceSpan, targetMatchableAttrs, targetEvents);\n    }\n\n    /**\n     * @param
{string} selector\n     * @param {string} elementCssSelector\n     * @return {string}
parsed directives\n     */\n    private _parseDirectives(selectorMatcher: SelectorMatcher, elementCssSelector: CssSelector): CompileDirectiveSummary[], matchElement: boolean {\n    // Need to sort the directives so that we get consistent
results throughout,\n    // as selectorMatcher uses Maps inside.\n    // Also deduplicate directives as they might match
more than one time!\n    const /** @type {string[]} */ directives = new Array(this.directivesIndex.size);\n    // Whether
any directive selector matches on the element name\n    let /** @type {boolean} */ matchElement = false;\n\n    selectorMatcher.match(elementCssSelector, (selector, directive) => {\n
directives[this.directivesIndex.get(directive)] = directive;\n    matchElement = matchElement ||
selector.hasElementSelector();\n    });\n\n    return {\n        directives: directives.filter(dir => !!dir),\n
matchElement,\n    };\n    }\n\n    /**\n     * @param {string} isTemplateElement\n     * @param {string} elementName\n     * @param {string} directives\n     * @param {string} props\n     * @param {string} elementOrDirectiveRefs\n     * @param {string} elementSourceSpan\n     *
@param {string} targetReferences\n     * @return {string}
created directive ASTs\n     */\n    private _createDirectiveAsts(isTemplateElement:
boolean, elementName: string, directives: CompileDirectiveSummary[], props: BoundProperty[],
elementOrDirectiveRefs: ElementOrDirectiveRef[], elementSourceSpan: ParseSourceSpan, targetReferences:
ReferenceAst[]): DirectiveAst[] {\n    const /** @type {string} */ matchedReferences = new Set<string>();\n    let /**
@type {string} */ component: CompileDirectiveSummary = null;\n    const /** @type {string} */ directiveAsts =
directives.map((directive) => {\n        const /** @type {string} */ sourceSpan = new ParseSourceSpan(\n
elementSourceSpan.start, elementSourceSpan.end,\n            `Directive ${identifierName(directive.type)}`);\n        if
(directive.isComponent) {\n            component = directive;\n        }\n        const /** @type {string} */ directiveProperties:
BoundDirectivePropertyAst[] = [];\n        const /** @type {string} */ hostProperties =\n

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this._bindingParser.createDirectiveHostPropertyAsts(directive, sourceSpan);\n // Note: We need to check the
host properties here as well,\n // as we don't know the element name in the DirectiveWrapperCompiler yet.\n
this._checkPropertiesInSchema(elementName, hostProperties);\n const /** @type {?} */ hostEvents =
this._bindingParser.createDirectiveHostEventAsts(directive, sourceSpan);\n
this._createDirectivePropertyAsts(directive.inputs, props, directiveProperties);\n
elementOrDirectiveRefs.forEach((elOrDirRef) => {\n if ((elOrDirRef.value.length === 0 &&
directive.isComponent) ||\n (directive.exportAs == elOrDirRef.value)) {\n targetReferences.push(new
ReferenceAst(\n elOrDirRef.name, identifierToken(directive.type), elOrDirRef.sourceSpan));\n
matchedReferences.add(elOrDirRef.name);\n }\n });\n return new DirectiveAst(\n directive,
directiveProperties, hostProperties, hostEvents, sourceSpan);\n });\n
elementOrDirectiveRefs.forEach((elOrDirRef) => {\n if (elOrDirRef.value.length > 0) {\n if
(!matchedReferences.has(elOrDirRef.name)) {\n this._reportError(\n `There is no directive with
\"exportAs\" set to \"${elOrDirRef.value}\"`,\n elOrDirRef.sourceSpan);\n }\n } else if (!component)
{\n let /** @type {?} */ refToken: CompileTokenMetadata = null;\n if (isTemplateElement) {\n
refToken = createIdentifierToken(Identifiers.TemplateRef);\n }\n targetReferences.push(new
ReferenceAst(elOrDirRef.name, refToken, elOrDirRef.sourceSpan));\n }\n }); // fix syntax highlighting issue:
\n return directiveAsts;\n }\n\n/**\n * @param {?} directiveProperties\n * @param {?} boundProps\n * @param
{?} targetBoundDirectiveProps\n * @return {?}\n */\nprivate _createDirectivePropertyAsts(\n
directiveProperties: {[key: string]: string}, boundProps: BoundProperty[],\n targetBoundDirectiveProps:
BoundDirectivePropertyAst[]) {\n if (directiveProperties) {\n const /** @type {?} */ boundPropsByName =
new Map<string, BoundProperty>();\n boundProps.forEach(boundProp => {\n const /** @type {?} */
prevValue = boundPropsByName.get(boundProp.name);\n if (!prevValue || prevValue.isLiteral) {\n // give
[a]="b" a higher precedence than a="b" on the same element\n boundPropsByName.set(boundProp.name,
boundProp);\n }\n });\n\n Object.keys(directiveProperties).forEach(dirProp => {\n const /** @type
{?} */ elProp = directiveProperties[dirProp];\n const /** @type {?} */ boundProp =
boundPropsByName.get(elProp);\n // Bindings are optional, so this binding only needs to be set up if an
expression is given.\n if (boundProp) {\n targetBoundDirectiveProps.push(new
BoundDirectivePropertyAst(\n dirProp, boundProp.name, boundProp.expression,
boundProp.sourceSpan);\n }\n });\n }\n\n /**\n * @param {?} elementName\n * @param {?} props\n *
@param {?} directives\n * @return {?}\n */\nprivate _createElementPropertyAsts(\n elementName: string,
props: BoundProperty[],\n directives: DirectiveAst[]): BoundElementPropertyAst[] {\n const /** @type {?} */
boundElementProps: BoundElementPropertyAst[] = [];\n const /** @type {?} */ boundDirectivePropsIndex =
new Map<string, BoundDirectivePropertyAst>();\n\n directives.forEach((directive: DirectiveAst) => {\n
directive.inputs.forEach((prop: BoundDirectivePropertyAst) => {\n
boundDirectivePropsIndex.set(prop.templateName, prop);\n });\n });\n\n props.forEach((prop:
BoundProperty) => {\n if (!prop.isLiteral && !boundDirectivePropsIndex.get(prop.name)) {\n
boundElementProps.push(this._bindingParser.createElementPropertyAst(elementName, prop));\n }\n });\n
this._checkPropertiesInSchema(elementName, boundElementProps);\n return boundElementProps;\n }\n\n/**\n *
@param {?} directives\n * @return {?}\n */\nprivate _findComponentDirectives(directives: DirectiveAst[]):
DirectiveAst[] {\n return directives.filter(directive => directive.directive.isComponent);\n }\n\n/**\n *
@param {?} directives\n * @return {?}\n */\nprivate _findComponentDirectiveNames(directives: DirectiveAst[]): string[] {\n
return this._findComponentDirectives(directives)\n .map(directive =>
identifierName(directive.directive.type));\n }\n\n/**\n * @param {?} directives\n * @param {?} sourceSpan\n *
@return {?}\n */\nprivate _assertOnlyOneComponent(directives: DirectiveAst[], sourceSpan: ParseSourceSpan) {\n
const /** @type {?} */ componentTypeNames = this._findComponentDirectiveNames(directives);\n if
(componentTypeNames.length > 1) {\n this._reportError(\n `More than one component matched on this
element.` +\n `Make sure that only one component's selector can match a given element.` +\n
`Conflicting components: ${componentTypeNames.join(',')}`,\n sourceSpan);\n }\n }\n\n/**\n * Make sure

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that non-angular tags conform to the schemas.\n * *\n * Note: An element is considered an angular tag when at
least one directive selector matches the\n * tag name.\n * *\n * @param {?} matchElement Whether any directive
has matched on the tag name\n * @param {?} element the html element\n * @return {?}\n * \nprivate
_assertElementExists(matchElement: boolean, element: html.Element) {\n  const /** @type {?} */ elName =
element.name.replace(/^(?:xhtml:/, "));\n  if (!matchElement && !this._schemaRegistry.hasElement(elName,
this._schemas)) {\n    const /** @type {?} */ errorMsg = `${elName}` is not a known element:\n` +\n    `1. If
`${elName}` is an Angular component, then verify that it is part of this module.\n` +\n    `2. If `${elName}` is a
Web Component then add `CUSTOM_ELEMENTS_SCHEMA` to the `@NgModule.schemas` of this component
to suppress this message.`;\n    this._reportError(errorMsg, element.sourceSpan);\n  }\n} \n/**\n * @param {?}
directives\n * @param {?} elementProps\n * @param {?} sourceSpan\n * @return {?}\n * \nprivate
_assertNoComponentsNorElementBindingsOnTemplate(\n  directives: DirectiveAst[], elementProps:
BoundElementPropertyAst[],\n  sourceSpan: ParseSourceSpan) {\n  const /** @type {?} */
componentTypeNames: string[] = this._findComponentDirectiveNames(directives);\n  if
(componentTypeNames.length > 0) {\n    this._reportError(\n      `Components on an embedded template:
${componentTypeNames.join(',')}` , sourceSpan);\n  }\n  elementProps.forEach(prop => {\n
this._reportError(\n    `Property binding ${prop.name} not used by any directive on an embedded
template. Make sure that the property name is spelled correctly and all directives are listed in the
`@\nNgModule.declarations`.`,\n    sourceSpan);\n  });\n} \n/**\n * @param {?} directives\n * @param {?}
events\n * @return {?}\n * \nprivate _assertAllEventsPublishedByDirectives(\n  directives: DirectiveAst[],
events: BoundEventAst[]) {\n  const /** @type {?} */ allDirectiveEvents = new Set<string>();\n  \n
directives.forEach(directive => {\n    Object.keys(directive.directive.outputs).forEach(k => {\n      const /**
@type {?} */ eventName = directive.directive.outputs[k];\n      allDirectiveEvents.add(eventName);\n    });\n  });\n  events.forEach(event => {\n    if (isPresent(event.target) || !allDirectiveEvents.has(event.name)) {\n
this._reportError(\n      `Event binding ${event.fullName} not emitted by any directive on an embedded
template. Make sure that the event name is spelled correctly and all directives are listed in the
`@\nNgModule.declarations`.`,\n      event.sourceSpan);\n    });\n  });\n} \n/**\n * @param {?}
elementName\n * @param {?} boundProps\n * @return {?}\n * \nprivate
_checkPropertiesInSchema(elementName: string, boundProps: BoundElementPropertyAst[]) {\n
boundProps.forEach((boundProp) => {\n  if (boundProp.type === PropertyBindingType.Property &&\n
!this._schemaRegistry.hasProperty(elementName, boundProp.name, this._schemas)) {\n    let /** @type {?} */
errorMsg =\n      `Can't bind to `${boundProp.name}` since it isn't a known property of `${elementName}`.`;\n
if (elementName.indexOf('-') > -1) {\n      errorMsg +=\n        `1. If `${elementName}` is an Angular
component and it has `${boundProp.name}` input, then verify that it is part of this module.` +\n        `2. If
`${elementName}` is a Web Component then add `CUSTOM_ELEMENTS_SCHEMA` to the
`@\nNgModule.schemas` of this component to suppress this message.\n`; \n    this._reportError(errorMsg,
boundProp.sourceSpan);\n  }\n});\n} \n/**\n * @param {?} message\n * @param {?} sourceSpan\n * @param
{?} level\n * @return {?}\n * \nprivate _reportError(\n  message: string, sourceSpan: ParseSourceSpan,\n
level: ParseErrorLevel = ParseErrorLevel.FATAL) {\n  this._targetErrors.push(new ParseError(sourceSpan,
message, level));\n} \n}\n\nfunction TemplateParseVisitor_tsickle_Closure_declarations() {\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype.selectorMatcher;\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype.directivesIndex;\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype.ngContentCount;\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype.providerViewContext;\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype._bindingParser;\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype._schemaRegistry;\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype._schemas;\n /** @type {?}
*\n * \nTemplateParseVisitor.prototype._targetErrors;\n} \n}\n\nclass NonBindableVisitor implements html.Visitor
{\n /**\n * @param {?} ast\n * @param {?} parent\n * @return {?}\n * \nvisitElement(ast: html.Element, parent:

```





```

*\nElementContext.prototype._ngContentIndexMatcher;\n /** @type {?}
*\nElementContext.prototype._wildcardNgContentIndex;\n /** @type {?}
*\nElementContext.prototype.providerContext;\n\n\n**\n * @param {?} elementName\n * @param {?}
matchableAttrs\n * @return {?} \n *\nexport function createElementCssSelector(\n  elementName: string,
matchableAttrs: string[][]): CssSelector {\n  const /** @type {?} */ cssSelector = new CssSelector();\n  const /**
@type {?} */ elNameNoNs = splitNsName(elementName)[1];\n\n  cssSelector.setElement(elNameNoNs);\n\n  for
(let /** @type {?} */ i = 0; i < matchableAttrs.length; i++) {\n    const /** @type {?} */ attrName =
matchableAttrs[i][0];\n    const /** @type {?} */ attrNameNoNs = splitNsName(attrName)[1];\n    const /** @type
{?} */ attrValue = matchableAttrs[i][1];\n\n    cssSelector.addAttribute(attrNameNoNs, attrValue);\n    if
(attrName.toLowerCase() == CLASS_ATTR) {\n      const /** @type {?} */ classes = splitClasses(attrValue);\n
classes.forEach(className => cssSelector.addClassName(className));\n    }\n  }\n  return cssSelector;\n\n\n\nconst
/** @type {?} */ EMPTY_ELEMENT_CONTEXT = new ElementContext(true, new SelectorMatcher(), null,
null);\nconst /** @type {?} */ NON_BINDABLE_VISITOR = new NonBindableVisitor();\n\n**\n * @param {?}
node\n * @return {?} \n *\nfunction isEmptyTextNode(node: html.Node): boolean {\n  return node instanceof
html.Text && node.value.trim().length == 0;\n}\n\n**\n * @param {?} items\n * @return {?} \n *\nexport function
removeSummaryDuplicates<T extends {type: CompileTypeMetadata}>(items: T[]): T[] {\n  const /** @type {?} */
map = new Map<any, T>();\n\n  items.forEach((item) => {\n    if (!map.get(item.type.reference)) {\n
map.set(item.type.reference, item);\n    }\n  });\n\n  return Array.from(map.values());\n}\n\ninterface
DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/template_parser/template_parser.js.map

```

No license file was found, but licenses were detected in source scan.

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AAC,cAAc,GAAG,EAAE,CAAC;QACzC,IAAI,gBAAgB,CAAC,UAAU,GAAG,CAAC,CAAC;QACpC,IAAI,gB  
AAgB,CAAC,GAAoB,CAAC;QACIC,IAAM,gBAAgB,CAAC,GAAG,GAAG,qBAAqB,CAAC;QACnD,IAAM,g  
BAAgB,CAAC,UAAU,GAAG,QAAQ,CAAC,OAAO,CAAC,yBAAyB,CAAC,CAAC;QAEhF,OAAO,CAAC,GA  
AG,GAAG,GAAG,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC,KAAK,IAAI,EAAE,CAAC;YAC3C,IAAM,gBAAg  
B,CAAC,SAAS,GAAG,GAAG,CAAC,CAAC,CAAC,CAAC;YACIC,IAAM,gBAAgB,CAAC,IAAI,GAAG,QAA  
Q,CAAC,KAAK,CAAC,UAAU,EAAE,GAAG,CAAC,KAAK,CAAC,CAAC,IAAI,EAAE,CAAC;YAC3E,4EAA4  
E;YAC5E,wEAAwE;YACxE,IAAM,gBAAgB,CAAC,UAAU,GAAG,UAAU,IAAI,UAAU,GAAG,kBAaKB,CAA  
C,IAAI,CAAC,GAAG,IAAI,CAAC;YAC/F,cAAc,IAAO,UAAU,SAAI,SAAS,MAAG,CAAC;YAChD,UAAU,GA  
AG,GAAG,CAAC,SAAS,CAAC;QAC7B,CAAC;QAED,cAAc,IAAI,kBAaKB,CAAC,QAAQ,CAAC,SAAS,CAA  
C,UAAU,CAAC,CAAC,CAAC;QAErE,sDAAsD;QACtD,MAAM,CAAC,WAAW,CAAC,OAAO,CAAC,cAAc,C  
AAC,CAAC;IAC7C,CAAC;IACH;;;OAGG;IACK,gDAA4B,GAApC,UAAqC,QAAgB;QACjD,MAAM,CAAC,Q

AAQ,CAAC,OAAO,CAAC,mBAAmB,EAAE,oBAAoB,CAAC;aAC7D,OAAO,CAAC,YAAY,EAAE,aAAa,CAA  
C,CAAC;IAC5C,CAAC;IACH,gBAAC;AAAD,CAAC,AA5TD,IA4TC;AAED;IACC,gBAAgB;IACjB,SAAS,CA  
AC,SAAS,CAAC,aAAa,CAAC;AACIC,CAAC;AAGD;IAIA;;OAE;IACH,sBAAY,QAAgB;QAP5B,iBAqCC;QA  
pCO,iBAAY,GAAa,EAAE,CAAC;QAC5B,UAAK,GAAG,CAAC,CAAC;QAMd,kDAaKd;QACID,oFAAoF;QAC  
pF,QAAQ,GAAG,QAAQ,CAAC,OAAO,CAAC,eAAe,EAAE,UAAC,CAAC,EAAE,IAAI;YACnD,IAAM,SAAS,  
GAAG,UAAQ,KAAI,CAAC,KAAK,OAAI,CAAC;YACzC,KAAI,CAAC,YAAY,CAAC,IAAI,CAAC,IAAI,CAA  
C,CAAC;YAC7B,KAAI,CAAC,KAAK,EAAE,CAAC;YACb,MAAM,CAAC,SAAS,CAAC;QACnB,CAAC,CAA  
C,CAAC;QAEH,sEAAe;QACtE,oEAAoE;QACpE,IAAI,CAAC,QAAQ,GAAG,QAAQ,CAAC,OAAO,CAAC,2B  
AA2B,EAAE,UAAC,CAAC,EAAE,MAAM,EAAE,GAAG;YAC3E,IAAM,SAAS,GAAG,UAAQ,KAAI,CAAC,K  
AAK,OAAI,CAAC;YACzC,KAAI,CAAC,YAAY,CAAC,IAAI,CAAC,GAAG,CAAC,CAAC;YAC5B,KAAI,CAA  
C,KAAK,EAAE,CAAC;YACb,MAAM,CAAC,MAAM,GAAG,SAAS,CAAC;QAC5B,CAAC,CAAC,CAAC;IAC  
L,CAAC;;IACH;;OAGG;IACH,8BAAO,GAAP,UAAQ,OAAe;QAAvB,iBAEG;QADC,MAAM,CAAC,OAAO,C  
AAC,OAAO,CAAC,eAAe,EAAE,UAAC,EAAE,EAAE,KAAK,IAAK,OAAA,KAAI,CAAC,YAAY,CAAC,CAAC  
,KAAK,CAAC,EAazB,CAAyB,CAAC,CAAC;IACpF,CAAC;IACH;;OAE;IACH,8BAAO,GAAP,cAAoB,MAA  
M,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC,CAAC;IAC3C,mBAAC;AAAD,CAAC,AArCD,IAqCC;AAED;IAC  
C,gBAAgB;IACjB,YAAY,CAAC,SAAS,CAAC,YAAY,CAAC;IACnC,gBAAgB;IACjB,YAAY,CAAC,SAAS,CA  
AC,KAAK,CAAC;IAC5B,gBAAgB;IACjB,YAAY,CAAC,SAAS,CAAC,QAAQ,CAAC;AACChC,CAAC;AAGD,I  
AAM,gBAAgB,CAAC,yBAAYB,GAC5C,2EAA2E,CAAC;AACChF,IAAM,gBAAgB,CAAC,iBAAiB,GAAG,iEAA  
iE,CAAC;AAC7G,IAAM,gBAAgB,CAAC,yBAAYB,GAC5C,0EAA0E,CAAC;AAC/E,IAAM,gBAAgB,CAAC,aA  
Aa,GAAG,gBAAgB,CAAC;AACxD,8DAA8D;AAC9D,IAAM,gBAAgB,CAAC,oBAAoB,GAAG,mBAAmB,CA  
AC;AACIE,IAAM,gBAAgB,CAAC,YAAY,GAAG,UAAU;IAC5C,2BAA2B;IAC3B,gBAAgB,CAAC;AACrB,IA  
AM,gBAAgB,CAAC,eAAe,GAAG,IAAI,MAAM,CAAC,GAAG,GAAG,aAAa,GAAG,YAAY,EAAE,KAAK,CAA  
C,CAAC;AAC/F,IAAM,gBAAgB,CAAC,sBAAsB,GAAG,IAAI,MAAM,CAAC,GAAG,GAAG,oBAAoB,GAAG,  
YAAY,EAAE,KAAK,CAAC,CAAC;AAC7G,IAAM,gBAAgB,CAAC,yBAAYB,GAAG,aAAa,GAAG,gBAAgB,C  
AAC;AACpF,IAAM,gBAAgB,CAAC,2BAA2B,GAAG,sCAAsC,CAAC;AAC5F,IAAM,gBAAgB,CAAC,qBAAq  
B,GAAG;IAC7C,WAAW;IACX,YAAY;IACZ,uBAAuB;IACvB,kBAaKB;IACIB,aAAa;CACd,CAAC;AACF,IAA  
M,gBAAgB,CAAC,oBAAoB,GAAG,uBAAuB,CAAC;AACtE,IAAM,gBAAgB,CAAC,iBAAiB,GAAG,6BAA6B,  
CAAC;AACzE,IAAM,gBAAgB,CAAC,eAAe,GAAG,mBAAmB,CAAC;AAC7D,IAAM,gBAAgB,CAAC,YAAY,  
GAAG,UAAU,CAAC;AACjD,IAAM,gBAAgB,CAAC,mBAAmB,GAAG,kBAaKB,CAAC;AAEhE,IAAM,gBAA  
gB,CAAC,UAAU,GAAG,sBAAsB,CAAC;AAC3D;;GAGG;AACH,uBAAuB,KAAa;IACIC,MAAM,CAAC,KAA  
K,CAAC,OAAO,CAAC,UAAU,EAAE,EAAE,CAAC,CAAC;AACvC,CAAC;AAED,4CAA4C;AAC5C,IAAM,gB  
AAgB,CAAC,mBAAmB,GAAG,0CAA0C,CAAC;AACxF;;GAGG;AACH,iCAAiC,KAAa;IAC5C,IAAM,gBAAg  
B,CAAC,OAAO,GAAG,KAAK,CAAC,KAAK,CAAC,mBAAmB,CAAC,CAAC;IACIE,MAAM,CAAC,OAAO,G  
AAG,OAAO,CAAC,CAAC,CAAC,GAAG,EAAE,CAAC;AACnC,CAAC;AAED,IAAM,gBAAgB,CAAC,OAAO,  
GAAG,uDAAuD,CAAC;AACzF,IAAM,gBAAgB,CAAC,QAAQ,GAAG,SAAS,CAAC;AAC5C,IAAM,gBAAgB,  
CAAC,UAAU,GAAG,GAAG,CAAC;AACxC,IAAM,gBAAgB,CAAC,WAAW,GAAG,GAAG,CAAC;AACzC,IA  
AM,gBAAgB,CAAC,iBAAiB,GAAG,SAAS,CAAC;AAErD;IACA;;OAGG;IACH,iBAAmB,QAAgB,EAC5B,OA  
Ae;QADH,aAAQ,GAAR,QAAQ,CAAQ;QAC5B,YAAO,GAAP,OAAO,CAAQ;IAAG,CAAC;IAC1B,cAAC;AAA  
D,CAAC,AAPD,IAOC;AAED;IACC,gBAAgB;IACjB,OAAO,CAAC,SAAS,CAAC,QAAQ,CAAC;IAC1B,gBAA  
gB;IACjB,OAAO,CAAC,SAAS,CAAC,OAAO,CAAC;AAC1B,CAAC;AAED;;GAGG;AACH,6BAA6B,KAAa,E  
AAE,YAAwC;IACIF,IAAM,gBAAgB,CAAC,sBAAsB,GAAG,YAAY,CAAC,KAAK,CAAC,CAAC;IACpE,IAAI,  
gBAAgB,CAAC,cAAc,GAAG,CAAC,CAAC;IACxC,MAAM,CAAC,sBAAsB,CAAC,aAAa,CAAC,OAAO,CAA  
C,OAAO,EAAE;QAAS,WAAc;aAAAd,WAAc,CAAd,sBAAc,CAAd,IAAc;YAAAd,0BAAc;;QACIF,IAAM,gBAAgB  
,CAAC,QAAQ,GAAG,CAAC,CAAC,CAAC,CAAC;QACvC,IAAI,gBAAgB,CAAC,OAAO,GAAG,EAAE  
,CAAC;QACIC,IAAI,gBAAgB,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC,CAAC;QACnC,IAAI,gBAA  
gB,CAAC,aAAa,GAAG,EAAE,CAAC;QACxC,EAAE,CAAC,CAAC,MAAM,IAAI,MAAM,CAAC,UAAU,CAA  
C,GAAG,GAAG,iBAAiB,CAAC,CAAC,CAAC,CAAC;YACzD,OAAO,GAAG,sBAAsB,CAAC,MAAM,CAAC,c  
AAc,EAAE,CAAC,CAAC;YAC1D,MAAM,GAAG,MAAM,CAAC,SAAS,CAAC,iBAAiB,CAAC,MAAM,GAAG

,CAAC,CAAC,CAAC;YACxD,aAAa,GAAG,GAAG,CAAC;QACtB,CAAC;QACD,IAAM,gBAAgB,CAAC,IAAI,GAAG,YAAY,CAAC,IAAI,OAAO,CAAC,QAAQ,EAAE,OAAO,CAAC,CAAC,CAAC;QAC3E,MAAM,CAAC,KAAG,CAAC,CAAC,CAAC,CAAC,GAAG,IAAI,CAAC,QAAQ,GAAG,CAAC,CAAC,CAAC,CAAC,GAAG,aAAa,GAAG,IAAI,CAAC,OAAO,GAAG,MAAQ,CAAC;IACIF,CAAC,CAAC,CAAC;AACL,CAAC;AAED;IACA;;;OAGG;IACH,iCAAmB,aAAqB,EACjC,MAAgB;QADJ,kBAaA,GAAb,aAAa,CAAQ;QACjC,WAAM,GAAN,MAAM,CAAU;IAAG,CAAC;IAC3B,8BAAC;AAAD,CAAC,AAPD,IAOC;AAED;IACC,gBAAgB;IACjB,uBAAuB,CAAC,SAAS,CAAC,aAAa,CAAC;IAC/C,gBAAgB;IACjB,uBAAuB,CAAC,SAAS,CAAC,MAAM,CAAC;AACzC,CAAC;AAED;;;GAGG;AACH,sBAAsB,KAAa;IACjC,IAAM,gBAAgB,CAAC,UAAU,GAAG,KAAK,CAAC,KAAK,CAAC,QAAQ,CAAC,CAAC;IAC1D,IAAM,gBAAgB,CAAC,WAAW,GAAa,EAAE,CAAC;IACID,IAAM,gBAAgB,CAAC,aAAa,GAAa,EAAE,CAAC;IACpD,IAAI,gBAAgB,CAAC,YAAY,GAAG,CAAC,CAAC;IACtC,IAAI,gBAAgB,CAAC,iBAaiB,GAAa,EAAE,CAAC;IACtD,GAAG,CAAC,CAAC,IAAI,gBAAgB,CAAC,SAAS,GAAG,CAAC,EAAE,SAAS,GAAG,UAAU,CAAC,MAAM,EAAE,SAAS,EAAE,EAAE,CAAC;QACpF,IAAM,gBAAgB,CAAC,IAAI,GAAG,UAAU,CAAC,SAAS,CAAC,CAAC;QACpD,EAAE,CAAC,CAAC,IAAI,IAAI,WAAW,CAAC,CAAC,CAAC;YACxB,YAAY,EAAE,CAAC;QACjB,CAAC;QACD,EAAE,CAAC,CAAC,YAAY,GAAG,CAAC,CAAC,CAAC,CAAC;YACrB,iBAaiB,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC;QAC/B,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,EAAE,CAAC,CAAC,iBAaiB,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC,CAAC;gBACjC,aAAa,CAAC,IAAI,CAAC,iBAaiB,CAAC,IAAI,CAAC,EAAE,CAAC,CAAC,CAAC;gBAC/C,WAAW,CAAC,IAAI,CAAC,iBAaiB,CAAC,CAAC;gBACpC,iBAaiB,GAAG,EAAE,CAAC;YACzB,CAAC;YACD,WAAW,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC;QACzB,CAAC;QACD,EAAE,CAAC,CAAC,IAAI,IAAI,UAAU,CAAC,CAAC,CAAC;YACvB,YAAY,EAAE,CAAC;QACjB,CAAC;IACH,CAAC;IACD,EAAE,CAAC,CAAC,iBAaiB,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC,CAAC;QACjC,aAAa,CAAC,IAAI,CAAC,iBAaiB,CAAC,IAAI,CAAC,EAAE,CAAC,CAAC,CAAC;QAC/C,WAAW,CAAC,IAAI,CAAC,iBAaiB,CAAC,CAAC;IACtC,CAAC;IACD,MAAM,CAAC,IAAI,uBAAuB,CAAC,WAAW,CAAC,IAAI,CAAC,EAAE,CAAC,EAAE,aAAa,CAAC,CAAC;AACIE,CAAC", "sourcesContent":["/\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \* \n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at\n \* https://angular.io/license\n \* \n \* This file is a port of shadowCSS from webcomponents.js to TypeScript.\n \* \n \* Please make sure to keep to edits in sync with the source file.\n \* \n \* Source:\n \* https://github.com/webcomponents/webcomponentsjs/blob/4efecd7e0e/src/ShadowCSS/ShadowCSS.js\n \* \n \* The original file level comment is reproduced below\n \* \n \* This is a limited shim for ShadowDOM css styling.\n \* https://dvcs.w3.org/hg/webcomponents/raw-file/tip/spec/shadow/index.html#styles\n \* \n \* The intention here is to support only the styling features which can be\n \* relatively simply implemented. The goal is to allow users to avoid the\n \* most obvious pitfalls and do so without compromising performance significantly.\n \* For ShadowDOM styling that's not covered here, a set of best practices\n \* can be provided that should allow users to accomplish more complex styling.\n \* \n \* The following is a list of specific ShadowDOM styling features and a brief\n \* discussion of the approach used to shim.\n \* \n \* Shimmed features:\n \* \n \* :host, :host-context: ShadowDOM allows styling of the shadowRoot's host\n \* element using the :host rule. To shim this feature, the :host styles are\n \* reformatted and prefixed with a given scope name and promoted to a\n \* document level stylesheet.\n \* For example, given a scope name of .foo, a rule like this:\n \* \n \* :host {\n \* background: red;\n \* }\n \* becomes:\n \* \n \* .foo {\n \* background: red;\n \* }\n \* \n \* encapsulation: Styles defined within ShadowDOM, apply only to\n \* dom inside the ShadowDOM. Polymer uses one of two techniques to implement\n \* this feature.\n \* \n \* By default, rules are prefixed with the host element tag name\n \* as a descendant selector. This ensures styling does not leak out of the 'top'\n \* of the element's ShadowDOM. For example,\n \* \n \* div {\n \* font-weight: bold;\n \* }\n \* becomes:\n \* \n \* x-foo div {\n \* font-weight: bold;\n \* }\n \* \n \* Alternatively, if WebComponents.ShadowCSS.strictStyling is set to true then\n \* selectors are scoped by adding an attribute selector suffix to each\n \* simple selector that contains the host element tag name. Each element\n \* in the element's ShadowDOM template is also given the scope attribute.\n \* Thus, these rules match only elements that have the scope attribute.\n \* For example, given a scope name of x-foo, a rule like this:\n \* \n \* div {\n \* font-weight: bold;\n \* }\n \* becomes:\n \* \n \* div[x-foo] {\n \* font-weight: bold;\n \* }\n \* \n \* Note that elements that are dynamically added to a scope must have the scope\n \* selector added to them

manually.

- \* upper/lower bound encapsulation: Styles which are defined outside a `shadowRoot` should not cross the `ShadowDOM` boundary and should not apply inside a `shadowRoot`. This styling behavior is not emulated. Some possible ways to do this that were rejected due to complexity and/or performance concerns include:
  - (1) reset every possible property for every possible selector for a given scope name;
  - (2) re-implement css in javascript.
 As an alternative, users should make sure to use selectors specific to the scope in which they are working.
- \* `::distributed`: This behavior is not emulated. It's often not necessary to style the contents of a specific insertion point and instead, descendants of the host element can be styled selectively. Users can also create an extra node around an insertion point and style that node's contents via descendent selectors. For example, with a `shadowRoot` like this:
 

```
<style>\n  ::content(div) {\n    background: red;\n  }\n</style>\n <content></content>\n\n
```

 could become:
 

```
<style>\n  /*@polyfill .content-container div *\n  ::content(div) {\n    background: red;\n  }\n</style>\n <div class="content-container">\n  <content></content>\n </div>\n\n
```

 Note the use of `@polyfill` in the comment above a `ShadowDOM` specific style declaration. This is a directive to the styling shim to use the selector in comments in lieu of the next selector when running under polyfill.

```

export class ShadowCss {
  strictStyling: boolean = true;
  constructor() {}
  /**
   * @param {?} cssText
   * @param {?} selector
   * @param {?=} hostSelector
   * @return {?}
   */
  shimCssText(cssText: string, selector: string, hostSelector: string = "): string {
    const /**
     * @type {?} */ sourceMappingUrl: string = extractSourceMappingUrl(cssText);
    cssText = stripComments(cssText);
    cssText = this._insertDirectives(cssText);
    return this._scopeCssText(cssText, selector, hostSelector) + sourceMappingUrl;
  }
  /**
   * @param {?} cssText
   * @return {?}
   */
  private _insertDirectives(cssText: string): string {
    cssText = this._insertPolyfillDirectivesInCssText(cssText);
    return this._insertPolyfillRulesInCssText(cssText);
  }
  /**
   * @param {?} cssText
   * @return {?}
   */
  private _insertPolyfillDirectivesInCssText(cssText: string): string {
    // Difference with webcomponents.js: does not handle comments
    return cssText.replace(_cssContentNextSelectorRe, function(...m: string[]) {
      return m[2] + '{';
    });
  }
  /**
   * @param {?} cssText
   * @return {?}
   */
  private _insertPolyfillRulesInCssText(cssText: string): string {
    // Difference with webcomponents.js: does not handle comments
    return cssText.replace(_cssContentRuleRe, (...m: string[]) => {
      const /**
       * @type {?} */ rule = m[0].replace(m[1], "").replace(m[2], "");
      return m[4] + rule;
    });
  }
  /**
   * @param {?} cssText
   * @param {?} scopeSelector
   * @param {?} hostSelector
   * @return {?}
   */
  private _scopeCssText(cssText: string, scopeSelector: string, hostSelector: string): string {
    const /**
     * @type {?} */ unscopedRules = this._extractUnscopedRulesFromCssText(cssText);
    // replace :host and :host-context -shadowcsshost and -shadowcsshost respectively
    cssText = this._insertPolyfillHostInCssText(cssText);
    cssText = this._convertColonHost(cssText);
    cssText = this._convertColonHostContext(cssText);
    cssText = this._convertShadowDOMSelectors(cssText);
    if (scopeSelector) {
      cssText = this._scopeSelectors(cssText, scopeSelector, hostSelector);
    }
    cssText = cssText + '\n' + unscopedRules;
    return cssText.trim();
  }
  /**
   * @param {?} cssText
   * @return {?}
   */
  private _extractUnscopedRulesFromCssText(cssText: string): string {
    // Difference with webcomponents.js: does not handle comments
    let /**
     * @type {?} */ r = "";
    let /**
     * @type {?} */ m: RegExpExecArray;
    _cssContentUnscopedRuleRe.lastIndex = 0;
    while ((m = _cssContentUnscopedRuleRe.exec(cssText)) !== null) {
      const /**
       * @type {?} */ rule = m[0].replace(m[2], "").replace(m[1], m[4]);
      r += rule + '\n\n';
    }
    return r;
  }
  /**
   * @param {?} cssText
   * @return {?}
   */
  private _convertColonHost(cssText: string): string {
    return this._convertColonRule(cssText, _cssColonHostRe, this._colonHostPartReplacer);
  }
  /**
   * @param {?} cssText
   * @return {?}
   */
  private _convertColonHostContext(cssText: string): string {
    return this._convertColonRule(cssText, _cssColonHostContextRe, this._colonHostContextPartReplacer);
  }
  /**
   * @param {?} cssText
   * @param {?} regExp
   * @param {?} partReplacer
   * @return {?}
   */
  private _convertColonRule(cssText: string, regExp: RegExp, partReplacer: Function): string {
    // m[1] = :host(-context), m[2] = contents of (), m[3] rest of rule
    return cssText.replace(regExp, function(...m: string[]) {
      if (m[2]) {
        const /**
         * @type {?} */ parts = m[2].split(',');
        const /**
         * @type {?} */ r: string[] = [];
        for (let /**
         * @type {?} */ i = 0; i < parts.length; i++) {
          const /**
           * @type {?} */ p = parts[i].trim();
          if (!p) break;
        }
      }
    });
  }

```

```

r.push(partReplacer(_polyfillHostNoCombinator, p, m[3]));\n    }\n    return r.join(',');\n  } else {\n    return
_polyfillHostNoCombinator + m[3];\n  }\n});\n}\n\n/**\n * @param {?} host\n * @param {?} part\n * @param
{?} suffix\n * @return {?}\n */\nprivate _colonHostContextPartReplacer(host: string, part: string, suffix: string):
string {\n  if (part.indexOf(_polyfillHost) > -1) {\n    return this._colonHostPartReplacer(host, part, suffix);\n  }
else {\n    return host + part + suffix + ', ' + part + ' ' + host + suffix;\n  }\n}\n\n/**\n * @param {?} host\n *
@param {?} part\n * @param {?} suffix\n * @return {?}\n */\nprivate _colonHostPartReplacer(host: string, part:
string, suffix: string): string {\n  return host + part.replace(_polyfillHost, '') + suffix;\n}\n\n/**\n * @param {?}
cssText\n * @return {?}\n */\nprivate _convertShadowDOMSelectors(cssText: string): string {\n  return
_shadowDOMSelectorsRe.reduce((result, pattern) => result.replace(pattern, ''), cssText);\n}\n\n/**\n * @param {?}
cssText\n * @param {?} scopeSelector\n * @param {?} hostSelector\n * @return {?}\n */\nprivate
_scopeSelectors(cssText: string, scopeSelector: string, hostSelector: string): string {\n  return
processRules(cssText, (rule: CssRule) => {\n    let /** @type {?} */ selector = rule.selector;\n    let /** @type {?}
*/ content = rule.content;\n    if (rule.selector[0] != '@') {\n      selector =\nthis._scopeSelector(rule.selector, scopeSelector, hostSelector, this.strictStyling);\n    } else if (\nrule.selector.startsWith('@media') || rule.selector.startsWith('@supports') ||\nrule.selector.startsWith('@page')
|| rule.selector.startsWith('@document')) {\n      content = this._scopeSelectors(rule.content, scopeSelector,
hostSelector);\n    }\n    return new CssRule(selector, content);\n  });\n}\n\n/**\n * @param {?} selector\n *
@param {?} scopeSelector\n * @param {?} hostSelector\n * @param {?} strict\n * @return {?}\n */\nprivate
_scopeSelector(\n  selector: string, scopeSelector: string, hostSelector: string, strict: boolean): string {\n  return
selector.split(',')\n    .map(part => part.trim()).split(_shadowDeepSelectors))\n    .map((deepParts) => {\n
const [shallowPart, ...otherParts] = deepParts;\n    const /** @type {?} */ applyScope = (shallowPart: string) =>
{\n      if (this._selectorNeedsScoping(shallowPart, scopeSelector)) {\n        return strict ?\nthis._applyStrictSelectorScope(shallowPart, scopeSelector, hostSelector) :\nthis._applySelectorScope(shallowPart, scopeSelector, hostSelector);\n      } else {\n        return shallowPart;\n      }\n    }\n    ;\n    return [applyScope(shallowPart), ...otherParts].join(' ');\n  })\n  .join(', ');\n}\n\n/**\n * @param {?} selector\n * @param {?} scopeSelector\n * @return {?}\n */\nprivate
_selectorNeedsScoping(selector: string, scopeSelector: string): boolean {\n  const /** @type {?} */ re =
this._makeScopeMatcher(scopeSelector);\n  return !re.test(selector);\n}\n\n/**\n * @param {?} scopeSelector\n *
@return {?}\n */\nprivate _makeScopeMatcher(scopeSelector: string): RegExp {\n  const /** @type {?} */ Ire =
^\\[/g;\n  const /** @type {?} */ rre = ^\\[/g;\n  scopeSelector = scopeSelector.replace(Ire, '\\\\[/').replace(rre,
'\\\\[/');\n  return new RegExp('^(' + scopeSelector + ') + _selectorReSuffix, 'm');\n}\n\n/**\n * @param {?}
selector\n * @param {?} scopeSelector\n * @param {?} hostSelector\n * @return {?}\n */\nprivate
_applySelectorScope(selector: string, scopeSelector: string, hostSelector: string):\n  string {\n    // Difference from
webcomponents.js: scopeSelector could not be an array\n    return this._applySimpleSelectorScope(selector,
scopeSelector, hostSelector);\n  }\n\n/**\n * @param {?} selector\n * @param {?} scopeSelector\n * @param {?}
hostSelector\n * @return {?}\n */\nprivate _applySimpleSelectorScope(selector: string, scopeSelector: string,
hostSelector: string):\n  string {\n    // In Android browser, the lastIndex is not reset when the regex is used in
String.replace()\n    _polyfillHostRe.lastIndex = 0;\n    if (_polyfillHostRe.test(selector)) {\n      const /** @type {?}
*/ replaceBy = this.strictStyling ? ` ${hostSelector}` : scopeSelector;\n      return selector\n        .replace(\n
_polyfillHostNoCombinatorRe,\n          (hnc, selector) => {\n            return selector.replace(\n
/([^\:]*)(:*)(.*)/, \n              (_, string, before, colon, string, after) => {\n                return before
+ replaceBy + colon + after;\n              });\n          })\n        .replace(_polyfillHostRe, replaceBy + ' ');\n    }\n\n    return scopeSelector + ' ' + selector;\n  }\n\n/**\n * @param {?} selector\n * @param {?} scopeSelector\n *
@param {?} hostSelector\n * @return {?}\n */\nprivate _applyStrictSelectorScope(selector: string, scopeSelector:
string, hostSelector: string):\n  string {\n    const /** @type {?} */ isRe = ^\\[is=(^[^\:]*)(\\[/g;\n    scopeSelector =
scopeSelector.replace(isRe, (_, string, ...parts: string[]) => parts[0]);\n\n    const /** @type {?} */ attrName = '[' +
scopeSelector + ''];\n\n    const /** @type {?} */ _scopeSelectorPart = (p: string) => {\n      let /** @type {?} */
scopedP = p.trim();\n\n      if (!scopedP) {\n        return '';\n      }\n\n      if (p.indexOf(_polyfillHostNoCombinator) >

```



```

-1) {\n    scopedP = this._applySimpleSelectorScope(p, scopeSelector, hostSelector);\n  } else {\n    //
remove :host since it should be unnecessary\n    const /** @type {?} */ t = p.replace(_polyfillHostRe, "");\n    if
(t.length > 0) {\n      const /** @type {?} */ matches = t.match(/(?:[^\s]*)(?:\s|/g);\n      if (matches) {\n
scopedP = matches[1] + attrName + matches[2] + matches[3];\n      }\n    }\n    return scopedP;\n  }
};\n  const /** @type {?} */ safeContent = new SafeSelector(selector);\n  selector = safeContent.content();\n  let /** @type {?} */ scopedSelector = "";\n  let /** @type {?} */ startIndex = 0;\n  let /** @type {?} */ res:
RegExpExecArray;\n  const /** @type {?} */ sep = /(>|\\+|~(?:!|=))\\s*/g;\n  const /** @type {?} */ scopeAfter =
selector.indexOf(_polyfillHostNoCombinator);\n  while ((res = sep.exec(selector)) !== null) {\n    const /**
@type {?} */ separator = res[1];\n    const /** @type {?} */ part = selector.slice(startIndex, res.index).trim();\n
// if a selector appears before :host-context it should not be shimmed as it\n    // matches on ancestor elements and
not on elements in the host's shadow\n    const /** @type {?} */ scopedPart = startIndex >= scopeAfter ?
_scopeSelectorPart(part) : part;\n    scopedSelector += `${scopedPart} ${separator}`;\n    startIndex =
sep.lastIndex;\n  }\n  scopedSelector += _scopeSelectorPart(selector.substring(startIndex));\n  // replace the
placeholders with their original values\n  return safeContent.restore(scopedSelector);\n  }\n  /**\n * @param {?}
selector\n * @return {?} */\n * private _insertPolyfillHostInCssText(selector: string): string {\n  return
selector.replace(_colonHostContextRe, _polyfillHostContext)\n    .replace(_colonHostRe, _polyfillHost);\n  }\n}
\nfunction ShadowCss_tsickle_Closure_declarations() {\n  /** @type {?}
*\n * private placeholders: string[] = [];\n * private
index = 0;\n * private _content: string;\n * @param {?} selector\n * constructor(selector: string) {\n  //
Replaces attribute selectors with placeholders.\n  // The WS in [attr="va lue"] would otherwise be interpreted as a
selector separator.\n  selector = selector.replace(/(?:[^\s]*)(?:\s|/g, (_, keep) => {\n    const replaceBy = `__ph-
${this.index}__`;\n    this.placeholders.push(keep);\n    this.index++;\n    return replaceBy;\n  });\n  //
Replaces the expression in `:nth-child(2n + 1)` with a placeholder.\n  // WS and `+` would otherwise be
interpreted as selector separators.\n  this._content = selector.replace(/(:nth-[^\s]*)(?:\s|/g, (_, pseudo, exp)
=> {\n    const replaceBy = `__ph-${this.index}__`;\n    this.placeholders.push(exp);\n    this.index++;\n
return pseudo + replaceBy;\n  });\n  }\n  /**\n * @param {?} content\n * @return {?} */\n * restore(content: string):
string {\n  return content.replace(/__ph-(\d+)__/, (ph, index) => this.placeholders[+index]);\n  }\n  /**\n * @return
{?} */\n * content(): string {\n  return this._content;\n  }\n}
\nfunction SafeSelector_tsickle_Closure_declarations() {\n  /** @type {?}
*\n * private placeholders;\n * @type {?} */\n * SafeSelector.prototype.index;\n * @type {?}
*\n * SafeSelector.prototype._content;\n  }\n  const /** @type {?} */ _cssContentNextSelectorRe =
/polyfill-next-selector(?:\s|/g;\n  const /** @type {?} */
_cssContentRuleRe = /(?:polyfill-rule)(?:\s|/g;\n  const /** @type {?} */
_cssContentUnscopedRuleRe = /(?:polyfill-unscoped-
rule)(?:\s|/g;\n  const /** @type {?} */ _polyfillHost = '-
shadowcsshost';\n  // note: :host-context pre-processed to -shadowcsshostcontext.\n  const /** @type {?} */
_polyfillHostContext = '-shadowcsscontext';\n  const /** @type {?} */ _parenSuffix = ')?:(?:\s|/g;\n  const /** @type {?} */ _cssColonHostRe = new RegExp(' +
_polyfillHost + _parenSuffix, 'gim');\n  const /** @type {?} */ _cssColonHostContextRe = new RegExp(' +
_polyfillHostContext + _parenSuffix, 'gim');\n  const /** @type {?} */ _polyfillHostNoCombinator = _polyfillHost +
'-no-combinator';\n  const /** @type {?} */ _polyfillHostNoCombinatorRe = /-shadowcsshost-no-
combinator(?:\s|/g;\n  const /** @type {?} */ _shadowDOMSelectorsRe = [/:shadow/g, /:content/g, //
Deprecated selectors\n  /\\shadow-deep\\//g, /\\shadow\\//g, /\\shadowDeepSelectors
= /(?:>>>)(?:\s|/g;\n  const /** @type {?} */ _selectorReSuffix = '(?:\s|/g;\n  const /**
@type {?} */ _polyfillHostRe = /-shadowcsshost/gim;\n  const /** @type {?} */ _colonHostRe = /:host/gim;\n  const
/** @type {?} */ _colonHostContextRe = /:host-context/gim;\n  const /** @type {?} */ _commentRe =
/\\/g;\n  const /** @type {?} */ _param {?} input\n * @return {?} */\n * function stripComments(input: string):
string {\n  return input.replace(_commentRe, "");\n  }\n  // all comments except inline source mapping\n  const /**
@type {?} */ _sourceMappingUrlRe = /\\/g;\n  const /** @type {?} */ _param {?}

```



AgB,GAAhB,gBAAgB,CAA+B;IAEpD,CAAC;IACH;;;OAIG;IACH,iCAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,mBAAmB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACpD,CAAC;IACH,wBAAC;AAAD,CAAC,AApBD,CAAuC,YAAY,GAoBID;AAED;IACC,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,IAAI,CAAC;IACHc,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,iBAAiB,CAAC;IAC7C,gBAAgB;IACjB,iBAAiB,CAAC,SAAS,CAAC,gBAAgB,CAAC;AAC7C,CAAC;AAGD;IAAkD,gDAAiB;IACnE;;;OAGG;IACH,sCAAmB,SAAiB,EAC7B,MAA0B;QAAI,iBAAO,CAAC;QAD1B,cAAS,GAAT,SAAS,CAAQ;QAC7B,WAAM,GAAN,MAAM,CAAoB;IAAa,CAAC;IAC/C;;;OAIG;IACH,4CAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,8BAA8B,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IAC/D,CAAC;IACH,mCAAC;AAAD,CAAC,AAfD,CAAkD,iBAAiB,GAeI;AAED;IACC,gBAAgB;IACjB,4BAA4B,CAAC,SAAS,CAAC,SAAS,CAAC;IACHd,gBAAgB;IACjB,4BAA4B,CAAC,SAAS,CAAC,MAAM,CAAC;AAC9C,CAAC;AAGD;IACA;;;OAGG;IACH,4CAAmB,SAAiB,EAC7B,OAAe;QADH,cAAS,GAAT,SAAS,CAAQ;QAC7B,YAAO,GAAP,OAAO,CAAQ;IAAG,CAAC;IAC1B,yCAAC;AAAD,CAAC,AApD,IAOC;AAED;IACC,gBAAgB;IACjB,kCAAKC,CAAC,SAAS,CAAC,SAAS,CAAC;IACtD,gBAAgB;IACjB,kCAAKC,CAAC,SAAS,CAAC,OAAO,CAAC;AACrD,CAAC;AAGD;IAAiD,+CAAiB;IACIE;;;OAGG;IACH,qCACO,YAAkD,EACID,SAAGC;QACnC,iBAAO,CAAC;QAFI,iBAAY,GAAZ,YAAY,CAAsC;QACID,cAAS,GAAT,SAAS,CAAuB;IAErC,CAAC;IACH;;;OAIG;IACH,2CAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,6BAA6B,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IAC9D,CAAC;IACH,kCAAC;AAAD,CAAC,AAIBD,CAAiD,iBAAiB,GAKBjE;AAED;IACC,gBAAgB;IACjB,2BAA2B,CAAC,SAAS,CAAC,YAAY,CAAC;IACID,gBAAgB;IACjB,2BAA2B,CAAC,SAAS,CAAC,SAAS,CAAC;AACHD,CAAC;AAGD;IAAsC,oCAAY;IACID;;;;;OAMG;IACH,0BACO,cAAkC,EACIC,SAAiC,EACjC,QAAgB,EACbB,KAAa,EACb,MAAc;QACjB,iBAAO,CAAC;QALL,mBAAc,GAAAd,cAAc,CAAoB;QACIC,cAAS,GAAT,SAAS,CAAwB;QACjC,aAAQ,GAAR,QAAQ,CAAQ;QACHB,UAAK,GAAL,KAAK,CAAQ;QACb,WAAM,GAAN,MAAM,CAAQ;IAEnB,CAAC;IACH;;;OAIG;IACH,gCAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,kBAAkB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACnD,CAAC;IACH,uBAAC;AAAD,CAAC,AAxBD,CAAsC,YAAY,GAwBjD;AAED;IACC,gBAAgB;IACjB,gBAAgB,CAAC,SAAS,CAAC,cAAc,CAAC;IACzC,gBAAgB;IACjB,gBAAgB,CAAC,SAAS,CAAC,SAAS,CAAC;IACpC,gBAAgB;IACjB,gBAAgB,CAAC,SAAS,CAAC,QAAQ,CAAC;IACnC,gBAAgB;IACjB,gBAAgB,CAAC,SAAS,CAAC,KAAK,CAAC;IACHc,gBAAgB;IACjB,gBAAgB,CAAC,SAAS,CAAC,MAAM,CAAC;AACIC,CAAC;AAGD;IAAwC,sCAAY;IACpD;;OAE;IACH,4BAAmB,MAA+C;QAAI,iBAAO,CAAC;QAA3D,WAAM,GAAN,MAAM,CAAYC;IAAa,CAAC;IACHf;;;OAIG;IACH,kCAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,oBAAoB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACrD,CAAC;IACH,yBAAC;AAAD,CAAC,AAbD,CAAwC,YAAY,GAAnD;AAED;IACC,gBAAgB;IACjB,kBAAkB,CAAC,SAAS,CAAC,MAAM,CAAC;AACpC,CAAC;AAGD;IAA0C,wCAAY;IACtD;;OAGG;IACH,8BAAmB,MAAc,EAC1B,MAA0B;QAAI,iBAAO,CAAC;QAD1B,WAAM,GAAN,MAAM,CAAQ;QAC1B,WAAM,GAAN,MAAM,CAAoB;IAAa,CAAC;IAC/C;;;OAIG;IACH,oCAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,sBAAsB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACvD,CAAC;IACH,2BAAC;AAAD,CAAC,AAfD,CAA0C,YAAY,GAerD;AAED;IACC,gBAAgB;IACjB,oBAAoB,CAAC,SAAS,CAAC,MAAM,CAAC;IACrC,gBAAgB;IACjB,oBAAoB,CAAC,SAAS,CAAC,MAAM,CAAC;AACtC,CAAC;AAED;;GAEG;AACH;IAAoD,yCAAY;IACHe;;OAE;IACH,+BAAmB,KAAqB;QAAI,iBAAO,CAAC;QAAjC,UAAK,GAAL,KAAK,CAAgB;IAAa,CAAC;IACtD,4BAAC;AAAD,CAAC,AALD,CAAoD,YAAY,GAK/D;AAED;IACC,gBAAgB;IACjB,qBAAqB,CAAC,SAAS,CAAC,KAAK,CAAC;AACtC,CAAC;AAGD;IAAuC,qCAAqB;IAC5D;;OAE;IACH,2BAAy,KAAqB;QAAI,kBAAM,KAAK,CAAC,CAAC;IAAC,CAAC;IACpD;;;;OAIG;IACH,iCAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,mBAAmB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACpD,CAAC;IACH,wBAAC;AAAD,CAAC,AAbD,CAAuC,qBAAqB,GAa3D;AAED;IAA0C,wCAAqB;IAC/D;;OAE;IACH,8BAAy,KAAqB;QAAI,kBAAM,KAAK,CAAC,CAAC;IAAC,CAAC;IACpD;;;;OAIG;IACH,oCAAK,GAAL,UAAM,OAA4B,EAAE,OAAY;QAC5C,MAAM,CAAC,OAAO,CAAC,sBAAsB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACvD,CAAC;IACH,2BAAC;AAAD,CAAC,AAbD,CAA0C,qBAAqB,GAa9D", "sourcesContent":["\n\n\*\*\n \* @license undefined\n \* Copyright Google Inc. All Rights Reserved.\n \* \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*

```

@abstract\n *\nexport abstract class AnimationAst {\npublic startTime: number = 0;\npublic playTime: number = 0;\n/**\n * @abstract\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: AnimationAstVisitor, context: any) {} }\n\nfunction AnimationAst_tsickle_Closure_declarations() {\n /** @type {?} *\nAnimationAst.prototype.startTime;\n /** @type {?} *\nAnimationAst.prototype.playTime;\n }\n\n/**\n * @abstract\n *\nexport abstract class AnimationStateAst extends AnimationAst {\n/**\n * @abstract\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: AnimationAstVisitor, context: any) {} }\n\nexport interface AnimationAstVisitor {\n visitAnimationEntry(ast: AnimationEntryAst, context: any): any;\n visitAnimationStateDeclaration(ast: AnimationStateDeclarationAst, context: any): any;\n visitAnimationStateTransition(ast: AnimationStateTransitionAst, context: any): any;\n visitAnimationStep(ast: AnimationStepAst, context: any): any;\n visitAnimationSequence(ast: AnimationSequenceAst, context: any): any;\n visitAnimationGroup(ast: AnimationGroupAst, context: any): any;\n visitAnimationKeyframe(ast: AnimationKeyframeAst, context: any): any;\n visitAnimationStyles(ast: AnimationStylesAst, context: any): any;\n }\n\nexport class AnimationEntryAst extends AnimationAst {\n/**\n * @param {?} name\n * @param {?} stateDeclarations\n * @param {?} stateTransitions\n *\nconstructor(\npublic name: string,\npublic stateDeclarations: AnimationStateDeclarationAst[],\npublic stateTransitions: AnimationStateTransitionAst[]) {\n super();\n }\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: AnimationAstVisitor, context: any): any {\n return visitor.visitAnimationEntry(this, context);\n }\n }\n\nfunction AnimationEntryAst_tsickle_Closure_declarations() {\n /** @type {?} *\nAnimationEntryAst.prototype.name;\n /** @type {?} *\nAnimationEntryAst.prototype.stateDeclarations;\n /** @type {?} *\nAnimationEntryAst.prototype.stateTransitions;\n }\n\nexport class AnimationStateDeclarationAst extends AnimationStateAst {\n/**\n * @param {?} stateName\n * @param {?} styles\n *\nconstructor(public stateName: string,\npublic styles: AnimationStylesAst) {\n super();\n }\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: AnimationAstVisitor, context: any): any {\n return visitor.visitAnimationStateDeclaration(this, context);\n }\n }\n\nfunction AnimationStateDeclarationAst_tsickle_Closure_declarations() {\n /** @type {?} *\nAnimationStateDeclarationAst.prototype.stateName;\n /** @type {?} *\nAnimationStateDeclarationAst.prototype.styles;\n }\n\nexport class AnimationStateTransitionExpression {\n/**\n * @param {?} fromState\n * @param {?} toState\n *\nconstructor(public fromState: string,\npublic toState: string) {} }\n\nfunction AnimationStateTransitionExpression_tsickle_Closure_declarations() {\n /** @type {?} *\nAnimationStateTransitionExpression.prototype.fromState;\n /** @type {?} *\nAnimationStateTransitionExpression.prototype.toState;\n }\n\nexport class AnimationStateTransitionAst extends AnimationStateAst {\n/**\n * @param {?} stateChanges\n * @param {?} animation\n *\nconstructor(\npublic stateChanges: AnimationStateTransitionExpression[],\npublic animation: AnimationWithStepsAst) {\n super();\n }\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: AnimationAstVisitor, context: any): any {\n return visitor.visitAnimationStateTransition(this, context);\n }\n }\n\nfunction AnimationStateTransitionAst_tsickle_Closure_declarations() {\n /** @type {?} *\nAnimationStateTransitionAst.prototype.stateChanges;\n /** @type {?} *\nAnimationStateTransitionAst.prototype.animation;\n }\n\nexport class AnimationStepAst extends AnimationAst {\n/**\n * @param {?} startingStyles\n * @param {?} keyframes\n * @param {?} duration\n * @param {?} delay\n * @param {?} easing\n *\nconstructor(\npublic startingStyles: AnimationStylesAst,\npublic keyframes: AnimationKeyframeAst[],\npublic duration: number,\npublic delay: number,\npublic easing: string) {\n super();\n }\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: AnimationAstVisitor, context: any): any {\n return visitor.visitAnimationStep(this, context);\n }\n }\n\nfunction AnimationStepAst_tsickle_Closure_declarations() {\n /** @type {?} *\nAnimationStepAst.prototype.startingStyles;\n /** @type {?} *\nAnimationStepAst.prototype.keyframes;\n /** @type {?} *\nAnimationStepAst.prototype.duration;\n /** @type {?} *\nAnimationStepAst.prototype.delay;\n /** @type {?} *\nAnimationStepAst.prototype.easing;\n }\n\nexport class AnimationStylesAst extends AnimationAst

```

```

{\n/**\n * @param {?} styles\n *\nconstructor(public styles: Array<{[key: string]: string | number}>) { super();
}\n/**\n * @param {?} visitor\n *\n @param {?} context\n *\n @return {?} \n *\nvisit(visitor: AnimationAstVisitor,
context: any): any {\n return visitor.visitAnimationStyles(this, context);\n }\n}\n\nfunction
AnimationStylesAst_tsickle_Closure_declarations() {\n /** @type {?}
*\n\nAnimationStylesAst.prototype.styles;\n}\n\n\nexport class AnimationKeyframeAst extends AnimationAst
{\n/**\n * @param {?} offset\n *\n @param {?} styles\n *\nconstructor(public offset: number,\n\npublic styles:
AnimationStylesAst) { super(); }\n/**\n * @param {?} visitor\n *\n @param {?} context\n *\n @return {?} \n
*\nvisit(visitor: AnimationAstVisitor, context: any): any {\n return visitor.visitAnimationKeyframe(this,
context);\n }\n}\n\nfunction AnimationKeyframeAst_tsickle_Closure_declarations() {\n /** @type {?}
*\n\nAnimationKeyframeAst.prototype.offset;\n /** @type {?}
*\n\nAnimationKeyframeAst.prototype.styles;\n}\n\n\n/**\n *\n @abstract\n *\nexport abstract class
AnimationWithStepsAst extends AnimationAst {\n/**\n * @param {?} steps\n *\nconstructor(public steps:
AnimationAst[]) { super(); }\n}\n\nfunction AnimationWithStepsAst_tsickle_Closure_declarations() {\n /** @type
{?} *\n\nAnimationWithStepsAst.prototype.steps;\n}\n\n\nexport class AnimationGroupAst extends
AnimationWithStepsAst {\n/**\n * @param {?} steps\n *\nconstructor(steps: AnimationAst[]) { super(steps);
}\n/**\n * @param {?} visitor\n *\n @param {?} context\n *\n @return {?} \n *\nvisit(visitor: AnimationAstVisitor,
context: any): any {\n return visitor.visitAnimationGroup(this, context);\n }\n}\n\n\nexport class
AnimationSequenceAst extends AnimationWithStepsAst {\n/**\n * @param {?} steps\n *\nconstructor(steps:
AnimationAst[]) { super(steps); }\n/**\n * @param {?} visitor\n *\n @param {?} context\n *\n @return {?} \n
*\nvisit(visitor: AnimationAstVisitor, context: any): any {\n return visitor.visitAnimationSequence(this,
context);\n }\n}\n\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/animation/animation_ast.js.map
No license file was found, but licenses were detected in source scan.

```

```

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mBAAmB,EAAC,MAAM,iCAAI;OAEpG,EAAC,oBAAoB,EAAC,MAAM,mBAAmB;AACTD;;;;;;GAQG;AA
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code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\nimport {SecurityContext} from '@angular/core';\nimport {isPresent} from './facade/lang';\nimport

```

{Identifiers, createIdentifier} from './identifiers';\nimport * as o from './output/output_ast';\nimport
{EMPTY_STATE as EMPTY_ANIMATION_STATE} from './private_import_core';\nimport
{BoundElementPropertyAst, BoundEventAst, PropertyBindingType} from
 './template_parser/template_ast';\n\nimport {createEnumExpression} from './identifier_util';\n/**\n * @param {?}
view\n * @param {?} boundProp\n * @param {?} renderElement\n * @param {?} renderValue\n * @param {?}
logBindingUpdate\n * @param {?=} securityContextExpression\n * @return {?}\n */\n\nexport function
writeToRenderer(\n  view: o.Expression, boundProp: BoundElementPropertyAst, renderElement: o.Expression,\n
renderValue: o.Expression, logBindingUpdate: boolean,\n  securityContextExpression?: o.Expression):
o.Statement[] {\n  const /** @type {?} */ updateStmts: o.Statement[] = [];\n  const /** @type {?} */ renderer =
view.prop('renderer');\n  renderValue = sanitizedValue(view, boundProp, renderValue,\n
securityContextExpression);\n  switch (boundProp.type) {\n    case PropertyBindingType.Property:\n      if
(logBindingUpdate) {\n        updateStmts.push(\n
o.importExpr(createIdentifier(Identifiers.setBindingDebugInfo))\n          .callFn([renderer, renderElement,\n
o.literal(boundProp.name), renderValue])\n            .toStmt());\n        }\n        updateStmts.push(\n
renderer\n          .callMethod(\n            'setElementProperty', [renderElement, o.literal(boundProp.name), renderValue])\n
          .toStmt());\n        break;\n      case PropertyBindingType.Attribute:\n        renderValue =\n
renderValue.isBlank().conditional(o.NULL_EXPR, renderValue.callMethod('toString', []));\n
updateStmts.push(\n
renderer\n          .callMethod(\n            'setElementAttribute', [renderElement,\n
o.literal(boundProp.name), renderValue])\n          .toStmt());\n        break;\n      case PropertyBindingType.Class:\n
updateStmts.push(\n
renderer\n          .callMethod(\n            'setElementClass', [renderElement,\n
o.literal(boundProp.name), renderValue])\n          .toStmt());\n        break;\n      case PropertyBindingType.Style:\n
let /** @type {?} */ strValue: o.Expression = renderValue.callMethod('toString', []);\n      if
(isPresent(boundProp.unit)) {\n        strValue = strValue.plus(o.literal(boundProp.unit));\n      }\n      renderValue
= renderValue.isBlank().conditional(o.NULL_EXPR, strValue);\n      updateStmts.push(\n
renderer\n          .callMethod(\n            'setElementStyle', [renderElement, o.literal(boundProp.name), renderValue])\n
          .toStmt());\n        break;\n      case PropertyBindingType.Animation:\n        throw new Error('Illegal state: Should not
come here!');\n      }\n      return updateStmts;\n    }\n  }\n\n/**\n * @param {?} view\n * @param {?} boundProp\n * @param {?}
renderValue\n * @param {?=} securityContextExpression\n * @return {?}\n */\n\nfunction sanitizedValue(\n
view: o.Expression, boundProp: BoundElementPropertyAst, renderValue: o.Expression,\n
securityContextExpression?: o.Expression): o.Expression {\n  if (boundProp.securityContext ===
SecurityContext.NONE) {\n    return renderValue; // No sanitization needed.\n  }\n  if
(!boundProp.needsRuntimeSecurityContext) {\n    securityContextExpression =\n
createEnumExpression(Identifiers.SecurityContext, boundProp.securityContext);\n  }\n  if
(!securityContextExpression) {\n    throw new Error('internal error, no SecurityContext given
${boundProp.name}');\n  }\n  const /** @type {?} */ ctx = view.prop('viewUtils').prop('sanitizer');\n  const /**
@type {?} */ args = [securityContextExpression, renderValue];\n  return ctx.callMethod('sanitize', args);\n}\n\n/**\n *
@param {?} view\n * @param {?} componentView\n * @param {?} boundProp\n * @param {?} boundOutputs\n *
@param {?} eventListener\n * @param {?} renderElement\n * @param {?} renderValue\n * @param {?}
lastRenderValue\n * @return {?}\n */\n\nexport function triggerAnimation(\n  view: o.Expression, componentView:
o.Expression, boundProp: BoundElementPropertyAst,\n  boundOutputs: BoundEventAst[], eventListener:
o.Expression, renderElement: o.Expression,\n  renderValue: o.Expression, lastRenderValue: o.Expression) {\n
const /** @type {?} */ detachStmts: o.Statement[] = [];\n  const /** @type {?} */ updateStmts: o.Statement[] =
[];\n\n  const /** @type {?} */ animationName = boundProp.name;\n\n  const /** @type {?} */ animationFnExpr
=\n    componentView.prop('componentType').prop('animations').key(o.literal(animationName));\n\n  // it's
important to normalize the void value as `void` explicitly\n  // so that the styles data can be obtained from the
stringmap\n  const /** @type {?} */ emptyStateValue = o.literal(EMPTY_ANIMATION_STATE);\n  const /**
@type {?} */ uninitializedValue = o.importExpr(createIdentifier(Identifiers.UNINITIALIZED));\n  const /** @type
{?} */ animationTransitionVar = o.variable('animationTransition_' + animationName);\n  updateStmts.push(\n

```

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animationTransitionVar\n      .set(animationFnExpr.callFn([\n      view, renderElement,\n lastRenderValue.equals(uninitializedValue).conditional(emptyStateValue, lastRenderValue)),\n renderValue.equals(uninitializedValue).conditional(emptyStateValue, renderValue))\n      ]))\n      .toDeclStmt();\n\n detachStmts.push(\n animationTransitionVar\n      .set(animationFnExpr.callFn([view,\n renderElement, lastRenderValue, emptyStateValue]))\n      .toDeclStmt());\n\n const /** @type {?} */\n registerStmts: o.Statement[] = [];\n const /** @type {?} */ animationStartMethodExists = boundOutputs.find(\n event => event.isAnimation && event.name == animationName && event.phase == 'start');\n if\n (animationStartMethodExists) {\n registerStmts.push(\n animationTransitionVar\n      .callMethod(\n      'onStart',\n      [eventListener.callMethod(\n      o.BuiltinMethod.Bind,\n      [view,\n o.literal(BoundEventAst.calcFullName(animationName, null, 'start'))])])\n      .toStmt());\n }\n\n const /**\n @type {?} */ animationDoneMethodExists = boundOutputs.find(\n event => event.isAnimation && event.name\n == animationName && event.phase == 'done');\n if (animationDoneMethodExists) {\n registerStmts.push(\n animationTransitionVar\n      .callMethod(\n      'onDone',\n      [eventListener.callMethod(\n      o.BuiltinMethod.Bind,\n      [view, o.literal(BoundEventAst.calcFullName(animationName, null,\n 'done'))])])\n      .toStmt());\n }\n\n updateStmts.push(...registerStmts);\n detachStmts.push(...registerStmts);\n\n return {updateStmts, detachStmts};\n }\n\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n }\n}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/compiler\_util/render\_util.js.map  
No license file was found, but licenses were detected in source scan.

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```

style license that can be
 * found in the LICENSE file at https://angular.io/license
 *
import {isBlank,
isPresent} from './facade/lang';
import {ParseError, ParseSourceSpan} from './parse_util';
import * as html
from './ast';
import {DEFAULT_INTERPOLATION_CONFIG, InterpolationConfig} from
 './interpolation_config';
import * as lex from './lexer';
import {TagDefinition, getNsPrefix, mergeNsAndName}
from './tags';
export class TreeError extends ParseError {
  /**
   * @param {?} elementName
   * @param {?} span
   * @param {?} msg
   * @return {?}
   */
  static create(elementName: string, span: ParseSourceSpan, msg:
string): TreeError {
    return new TreeError(elementName, span, msg);
  }
  /**
   * @param {?} elementName
   * @param {?} span
   * @param {?} msg
   */
  constructor(public elementName: string, span: ParseSourceSpan,
msg: string) {
    super(span, msg);
  }
  /**
   * @type {?}
   */
  TreeError.prototype.elementName;
}
export class ParseTreeResult {
  /**
   * @param {?} rootNodes
   * @param {?} errors
   */
  constructor(public rootNodes: html.Node[], public errors: ParseError[]) {}
  /**
   * @type {?}
   */
  ParseTreeResult.prototype.rootNodes;
  /**
   * @type {?}
   */
  ParseTreeResult.prototype.errors;
}
export class Parser {
  /**
   * @param {?}
   */
  getTagDefinition
  /**
   * @constructor
   * @param {tagDefinition: string} => TagDefinition
   */
  /**
   * @param {?} source
   * @param {?} url
   * @param {=?} parseExpansionForms
   * @param {=?} interpolationConfig
   * @return {?}
   */
  parse(
    source: string, url: string, parseExpansionForms: boolean =
false,
    interpolationConfig: InterpolationConfig = DEFAULT_INTERPOLATION_CONFIG): ParseTreeResult
  {
    const /** @type {?} */ tokensAndErrors =
lex.tokenize(source, url, this.getTagDefinition,
parseExpansionForms, interpolationConfig);
    const /** @type {?} */ treeAndErrors = new
_TreeBuilder(tokensAndErrors.tokens, this.getTagDefinition).build();
    return new ParseTreeResult(
treeAndErrors.rootNodes,
    /** @type {?} */
    /*((<ParseError[]>tokensAndErrors.errors)).concat(treeAndErrors.errors));
  }
  /**
   * @type {?}
   */
  Parser.prototype.getTagDefinition;
}
class
_TreeBuilder {
  private _index: number = -1;
  private _peek: lex.Token;
  private _rootNodes: html.Node[] =
[];
  private _errors: TreeError[] = [];
  private _elementStack: html.Element[] = [];
  /**
   * @param {?} tokens
   * @param {?} getTagDefinition
   * @constructor
   * @param {tokens: lex.Token[], getTagDefinition:
(tagName: string) => TagDefinition}
   */
  this._advance();
  /**
   * @return {?}
   */
  build(): ParseTreeResult
  {
    while (this._peek.type !== lex.TokenType.EOF) {
      if (this._peek.type ===
lex.TokenType.TAG_OPEN_START) {
        this._consumeStartTag(this._advance());
      } else if
(this._peek.type === lex.TokenType.TAG_CLOSE) {
        this._consumeEndTag(this._advance());
      } else if
(this._peek.type === lex.TokenType.CDATA_START) {
        this._closeVoidElement();
        this._consumeCdata(this._advance());
      } else if (this._peek.type === lex.TokenType.COMMENT_START) {
        this._closeVoidElement();
        this._consumeComment(this._advance());
      } else if (this._peek.type
=== lex.TokenType.TEXT || this._peek.type === lex.TokenType.RAW_TEXT ||
this._peek.type ===
lex.TokenType.ESCAPABLE_RAW_TEXT) {
        this._closeVoidElement();
        this._consumeText(this._advance());
      } else if (this._peek.type ===
lex.TokenType.EXPANSION_FORM_START) {
        this._consumeExpansion(this._advance());
      } else {
        // Skip all other tokens...
        this._advance();
      }
    }
    return new ParseTreeResult(this._rootNodes,
this._errors);
  }
  /**
   * @private
   * @param {lex.Token}
   */
  _advance(): lex.Token
  {
    const /** @type {?} */ prev =
this._peek;
    if (this._index < this.tokens.length - 1) {
      // Note: there is always an EOF token at the end
      this._index++;
      this._peek = this.tokens[this._index];
      return prev;
    }
    /**
     * @param {?} type
     */
    @return {?}
    _advanceIf(type: lex.TokenType): lex.Token
    {
      if (this._peek.type === type) {
        return this._advance();
      }
      return null;
    }
    /**
     * @param {?} startToken
     */
    @return {?}
    _private
    _consumeCdata(startToken: lex.Token)
    {
      this._consumeText(this._advance());
      this._advanceIf(lex.TokenType.CDATA_END);
    }
    /**
     * @param {?} token
     */
    @return {?}
    _private
    _consumeComment(token: lex.Token)
    {
      const /** @type {?} */ text =
this._advanceIf(lex.TokenType.RAW_TEXT);
      this._advanceIf(lex.TokenType.COMMENT_END);
      const
/** @type {?} */ value = isPresent(text) ? text.parts[0].trim() : null;
      this._addToParent(new

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html.Comment(value, token.sourceSpan);\n }n/**\n * @param {?} token\n * @return {?}\n *\nprivate
_consumeExpansion(token: lex.Token) {\n  const /** @type {?} */ switchValue = this._advance();\n\n  const /**
@type {?} */ type = this._advance();\n  const /** @type {?} */ cases: html.ExpansionCase[] = [];\n\n  // read =\nwhile (this._peek.type === lex.TokenType.EXPANSION_CASE_VALUE) {\n  const /** @type {?} */ expCase
= this._parseExpansionCase();\n  if (!expCase) return; // error\n  cases.push(expCase);\n  }\n\n  // read the
final }\n  if (this._peek.type !== lex.TokenType.EXPANSION_FORM_END) {\n    this._errors.push(\n
TreeError.create(null, this._peek.sourceSpan, `Invalid ICU message. Missing '`.`)`);\n    return;\n  }\n  const /**
@type {?} */ sourceSpan = new ParseSourceSpan(token.sourceSpan.start, this._peek.sourceSpan.end);\n
this._addToParent(new html.Expansion(\n    switchValue.parts[0], type.parts[0], cases, sourceSpan,
switchValue.sourceSpan));\n  this._advance();\n  }\n/**\n * @return {?}\n *\nprivate _parseExpansionCase():
html.ExpansionCase {\n  const /** @type {?} */ value = this._advance();\n\n  // read {\n  if (this._peek.type !==
lex.TokenType.EXPANSION_CASE_EXP_START) {\n    this._errors.push(\n      TreeError.create(null,
this._peek.sourceSpan, `Invalid ICU message. Missing '{`.`)`);\n    return null;\n  }\n\n  // read until }\n  const
/** @type {?} */ start = this._advance();\n\n  const /** @type {?} */ exp =
this._collectExpansionExpTokens(start);\n  if (!exp) return null;\n\n  const /** @type {?} */ end =
this._advance();\n  exp.push(new lex.Token(lex.TokenType.EOF, [], end.sourceSpan));\n\n  // parse everything in
between { and }\n  const /** @type {?} */ parsedExp = new _TreeBuilder(exp, this.getTagDefinition).build();\n
if (parsedExp.errors.length > 0) {\n    this._errors = this._errors.concat(/** @type {?}
*/((<<TreeError[]>parsedExp.errors));\n    return null;\n  }\n\n  const /** @type {?} */ sourceSpan = new
ParseSourceSpan(value.sourceSpan.start, end.sourceSpan.end);\n  const /** @type {?} */ expSourceSpan = new
ParseSourceSpan(start.sourceSpan.start, end.sourceSpan.end);\n  return new html.ExpansionCase(\n
value.parts[0], parsedExp.rootNodes, sourceSpan, value.sourceSpan, expSourceSpan);\n  }\n/**\n * @param {?}
start\n * @return {?}\n *\nprivate _collectExpansionExpTokens(start: lex.Token): lex.Token[] {\n  const /**
@type {?} */ exp: lex.Token[] = [];\n  const /** @type {?} */ expansionFormStack =
[lex.TokenType.EXPANSION_CASE_EXP_START];\n\n  while (true) {\n    if (this._peek.type ===
lex.TokenType.EXPANSION_FORM_START ||\n      this._peek.type ===
lex.TokenType.EXPANSION_CASE_EXP_START) {\n      expansionFormStack.push(this._peek.type);\n
}\n\n    if (this._peek.type === lex.TokenType.EXPANSION_CASE_EXP_END) {\n      if
(lastOnStack(expansionFormStack, lex.TokenType.EXPANSION_CASE_EXP_START)) {\n
expansionFormStack.pop();\n      if (expansionFormStack.length === 0) return exp;\n      } else {\n
this._errors.push(\n        TreeError.create(null, start.sourceSpan, `Invalid ICU message. Missing '`.`)`);\n
return null;\n      }\n    }\n\n    if (this._peek.type === lex.TokenType.EXPANSION_FORM_END) {\n      if
(lastOnStack(expansionFormStack, lex.TokenType.EXPANSION_FORM_START)) {\n
expansionFormStack.pop();\n      } else {\n        this._errors.push(\n          TreeError.create(null,
start.sourceSpan, `Invalid ICU message. Missing '`.`)`);\n        return null;\n      }\n    }\n\n    if (this._peek.type
=== lex.TokenType.EOF) {\n      this._errors.push(\n        TreeError.create(null, start.sourceSpan, `Invalid ICU
message. Missing '`.`)`);\n      return null;\n    }\n\n    exp.push(this._advance());\n  }\n  }\n/**\n * @param {?}
token\n * @return {?}\n *\nprivate _consumeText(token: lex.Token) {\n  let /** @type {?} */ text =
token.parts[0];\n  if (text.length > 0 && text[0] === "\\n") {\n    const /** @type {?} */ parent =
this._getParentElement();\n    if (isPresent(parent) && parent.children.length === 0 &&\n
this.getTagDefinition(parent.name).ignoreFirstLf) {\n      text = text.substring(1);\n    }\n  }\n  if (text.length
> 0) {\n    this._addToParent(new html.Text(text, token.sourceSpan));\n  }\n  }\n/**\n * @return {?}\n *\nprivate
_closeVoidElement(): void {\n  if (this._elementStack.length > 0) {\n    const /** @type {?} */ el =
this._elementStack[this._elementStack.length - 1];\n\n    if (this.getTagDefinition(el.name).isVoid) {\n
this._elementStack.pop();\n    }\n  }\n  }\n/**\n * @param {?} startTagToken\n * @return {?}\n *\nprivate
_consumeStartTag(startTagToken: lex.Token) {\n  const /** @type {?} */ prefix = startTagToken.parts[0];\n
const /** @type {?} */ name = startTagToken.parts[1];\n  const /** @type {?} */ attrs: html.Attribute[] = [];\n
while (this._peek.type === lex.TokenType.ATTR_NAME) {\n    attrs.push(this._consumeAttr(this._advance()));\n

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} \n const /** @type {?} */ fullName = this._getElementFullName(prefix, name, this._getParentElement()); \n
let /** @type {?} */ selfClosing = false; \n // Note: There could have been a tokenizer error \n // so that we don't
get a token for the end tag... \n if (this._peek.type === lex.TokenType.TAG_OPEN_END_VOID) { \n
this._advance(); \n selfClosing = true; \n const /** @type {?} */ tagDef = this.getTagDefinition(fullName); \n
if (!(tagDef.canSelfClose || getNsPrefix(fullName) !== null || tagDef.isVoid)) { \n
this._errors.push(TreeError.create(\n      fullName, startTagToken.sourceSpan, \n      `Only void and foreign
elements can be self closed \`${startTagToken.parts[1]}\`)); \n    } \n } else if (this._peek.type ===
lex.TokenType.TAG_OPEN_END) { \n this._advance(); \n selfClosing = false; \n } \n const /** @type {?} */
*/ end = this._peek.sourceSpan.start; \n const /** @type {?} */ span = new
ParseSourceSpan(startTagToken.sourceSpan.start, end); \n const /** @type {?} */ el = new
html.Element(fullName, attrs, [], span, span, null); \n this._pushElement(el); \n if (selfClosing) { \n
this._popElement(fullName); \n el.endSourceSpan = span; \n } \n } \n /** \n * @param {?} el \n * @return {?} \n
*/ \n private _pushElement(el: html.Element) { \n if (this._elementStack.length > 0) { \n const /** @type {?} */
parentEl = this._elementStack[this._elementStack.length - 1]; \n if
(this.getTagDefinition(parentEl.name).isClosedByChild(el.name)) { \n this._elementStack.pop(); \n } \n
} \n \n const /** @type {?} */ tagDef = this.getTagDefinition(el.name); \n const { parent, container } =
this._getParentElementSkippingContainers(); \n if (isPresent(parent) &&
tagDef.requireExtraParent(parent.name)) { \n const /** @type {?} */ newParent = new html.Element(\n
tagDef.parentToAdd, [], [], el.sourceSpan, el.startSourceSpan, el.endSourceSpan); \n
this._insertBeforeContainer(parent, container, newParent); \n } \n \n this._addToParent(el); \n
this._elementStack.push(el); \n } \n /** \n * @param {?} endTagToken \n * @return {?} \n */ \n private
_consumeEndTag(endTagToken: lex.Token) { \n const /** @type {?} */ fullName = this._getElementFullName(\n
endTagToken.parts[0], endTagToken.parts[1], this._getParentElement()); \n \n if (this._getParentElement()) { \n
this._getParentElement().endSourceSpan = endTagToken.sourceSpan; \n } \n \n if
(this.getTagDefinition(fullName).isVoid) { \n this._errors.push(TreeError.create(\n      fullName,
endTagToken.sourceSpan, \n      `Void elements do not have end tags \`${endTagToken.parts[1]}\`)); \n } \n
} else if
(!this._popElement(fullName)) { \n this._errors.push(TreeError.create(\n      fullName,
endTagToken.sourceSpan, \n      `Unexpected closing tag \`${endTagToken.parts[1]}\`)); \n } \n } \n /** \n
*/ \n * @param
{?} fullName \n * @return {?} \n */ \n private _popElement(fullName: string): boolean { \n for (let /** @type {?} */
stackIndex = this._elementStack.length - 1; stackIndex >= 0; stackIndex--) { \n const /** @type {?} */ el =
this._elementStack[stackIndex]; \n if (el.name === fullName) { \n this._elementStack.splice(stackIndex,
this._elementStack.length - stackIndex); \n return true; \n } \n } \n \n if
(!this.getTagDefinition(el.name).closedByParent) { \n return false; \n } \n } \n \n return false; \n } \n /** \n
*/ \n * @param
{?} attrName \n * @return {?} \n */ \n private _consumeAttr(attrName: lex.Token): html.Attribute { \n
const /** @type {?} */ fullName = mergeNsAndName(attrName.parts[0], attrName.parts[1]); \n let /** @type {?} */
*/ end = attrName.sourceSpan.end; \n let /** @type {?} */ value = ""; \n let /** @type {?} */ valueSpan:
ParseSourceSpan; \n if (this._peek.type === lex.TokenType.ATTR_VALUE) { \n const /** @type {?} */
valueToken = this._advance(); \n value = valueToken.parts[0]; \n end = valueToken.sourceSpan.end; \n
valueSpan = valueToken.sourceSpan; \n } \n return new html.Attribute(\n      fullName, value, new
ParseSourceSpan(attrName.sourceSpan.start, end), valueSpan); \n } \n /** \n * @return {?} \n */ \n private
_getParentElement(): html.Element { \n return this._elementStack.length > 0 ?
this._elementStack[this._elementStack.length - 1] : null; \n } \n /** \n * \n * Returns the parent in the DOM and the
container. \n * \n * `<ng-container>` elements are skipped as they are not rendered as DOM element. \n * \n
*/ \n * @return
{?} \n */ \n private _getParentElementSkippingContainers(): { parent: html.Element, container: html.Element } { \n
let /** @type {?} */ container: html.Element = null; \n \n for (let /** @type {?} */ i = this._elementStack.length -
1; i >= 0; i--) { \n if (this._elementStack[i].name !== 'ng-container') { \n return { parent: this._elementStack[i],
container }; \n } \n } \n \n container = this._elementStack[i]; \n } \n \n return { parent:
this._elementStack[this._elementStack.length - 1], container }; \n } \n /** \n * \n * \n * @param {?} node \n * \n
*/ \n * @return {?} \n

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*\nprivate _addToParent(node: html.Node) {\n  const /** @type {?} */ parent = this._getParentElement();\n  if\n  (isPresent(parent)) {\n    parent.children.push(node);\n  } else {\n    this._rootNodes.push(node);\n  }\n}\n/**\n * Insert a node between the parent and the container.\n * When no container is given, the node is\n appended as a child of the parent.\n * Also updates the element stack accordingly.\n * *\n * @param {?} parent\n * @param {?} container\n * @param {?} node\n * @return {?}\n */\nprivate _insertBeforeContainer(\n  parent:\n  html.Element, container: html.Element, node: html.Element) {\n  if (!container) {\n    this._addToParent(node);\n    this._elementStack.push(node);\n  } else {\n    if (parent) {\n      // replace the container with the new node in\n the children\n      const /** @type {?} */ index = parent.children.indexOf(container);\n      parent.children[index]\n = node;\n    } else {\n      this._rootNodes.push(node);\n    }\n    node.children.push(container);\n    this._elementStack.splice(this._elementStack.indexOf(container), 0, node);\n  }\n}\n/**\n * @param {?} prefix\n * @param {?} localName\n * @param {?} parentElement\n * @return {?}\n */\nprivate\n_getElementFullName(prefix: string, localName: string, parentElement: html.Element):\n string {\n  if\n  (isBlank(prefix)) {\n    prefix = this.getTagDefinition(localName).implicitNamespacePrefix;\n    if\n  (isBlank(prefix) && isPresent(parentElement)) {\n      prefix = getNsPrefix(parentElement.name);\n    }\n  }\n  return mergeNsAndName(prefix, localName);\n}\n}\n\nfunction _TreeBuilder_tsickle_Closure_declarations() {\n  /** @type {?} */\n  _TreeBuilder.prototype._index;\n  /** @type {?} */\n  _TreeBuilder.prototype._peek;\n  /** @type\n {?} */\n  _TreeBuilder.prototype._rootNodes;\n  /** @type {?} */\n  _TreeBuilder.prototype._errors;\n  /** @type {?} */\n  _TreeBuilder.prototype._elementStack;\n  /** @type {?} */\n  _TreeBuilder.prototype.tokens;\n  /** @type {?} */\n  _TreeBuilder.prototype.getTagDefinition;\n}\n\n/**\n * @param {?} stack\n * @param {?} element\n * @return {?}\n */\nfunction lastOnStack(stack: any[], element: any): boolean {\n  return stack.length > 0 &&\n  stack[stack.length - 1] === element;\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?:\n  any[];\n}\n}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/parser.js.map

No license file was found, but licenses were detected in source scan.

```

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```



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":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport {Lexer as
ExpressionLexer} from './expression_parser/lexer';\nimport {Parser as ExpressionParser} from
'./expression_parser/parser';\nimport * as html from './ml_parser/ast';\nimport {getHtmlTagDefinition} from
'./ml_parser/html_tags';\nimport {InterpolationConfig} from './ml_parser/interpolation_config';\nimport
{ParseSourceSpan} from './parse_util';\nimport * as i18n from './i18n_ast';\nimport {PlaceholderRegistry} from
'./serializers/placeholder';\n\nconst /** @type {?} */ _expParser = new ExpressionParser(new
ExpressionLexer());\n/**\n * Returns a function converting html nodes to an i18n Message given an
interpolationConfig\n * @param {?} interpolationConfig\n * @return {?} \n */\nexport function
createI18nMessageFactory(interpolationConfig: InterpolationConfig): (\n  nodes: html.Node[], meaning: string,
description: string) => i18n.Message {\n  const /** @type {?} */ visitor = new _I18nVisitor(_expParser,
interpolationConfig);\n\n  return (nodes: html.Node[], meaning: string, description: string) =>\n
visitor.toI18nMessage(nodes, meaning, description);\n}\n\nclass _I18nVisitor implements html.Visitor {\nprivate
_isIcu: boolean;\nprivate _icuDepth: number;\nprivate _placeholderRegistry: PlaceholderRegistry;\nprivate
_placeholderToContent: {[phName: string]: string};\nprivate _placeholderToMessage: {[phName: string]:
i18n.Message};\n/**\n * @param {?} _expressionParser\n * @param {?} _interpolationConfig\n
*/\nconstructor(\nprivate _expressionParser: ExpressionParser,\nprivate _interpolationConfig: InterpolationConfig)
{\n}\n/**\n * @param {?} nodes\n * @param {?} meaning\n * @param {?} description\n * @return {?} \n */\npublic
toI18nMessage(nodes: html.Node[], meaning: string, description: string): i18n.Message {\n  this._isIcu =
nodes.length == 1 && nodes[0] instanceof html.Expansion;\n  this._icuDepth = 0;\n  this._placeholderRegistry =
new PlaceholderRegistry();\n  this._placeholderToContent = {};\n  this._placeholderToMessage = {};\n\n  const
/** @type {?} */ i18nodes: i18n.Node[] = html.visitAll(this, nodes, {});\n\n  return new i18n.Message(\n
i18nodes, this._placeholderToContent, this._placeholderToMessage, meaning, description);\n  }\n/**\n * @param
{?} el\n * @param {?} context\n * @return {?} \n */\nvisitElement(el: html.Element, context: any): i18n.Node {\n
const /** @type {?} */ children = html.visitAll(this, el.children);\n  const /** @type {?} */ attrs: {[k: string]:
string} = {};\n  el.attrs.forEach(attr => {\n    // Do not visit the attributes, translatable ones are top-level ASTs\n
attrs[attr.name] = attr.value;\n  });\n\n  const /** @type {?} */ isVoid: boolean =
getHtmlTagDefinition(el.name).isVoid;\n  const /** @type {?} */ startPhName =\nthis._placeholderRegistry.getStartTagPlaceholderName(el.name, attrs, isVoid);\n  this._placeholderToContent[startPhName] = el.sourceSpan.toString();\n\n  let /** @type {?} */ closePhName =
";\n\n  if (!isVoid) {\n    closePhName = this._placeholderRegistry.getCloseTagPlaceholderName(el.name);\n  }\n  this._placeholderToContent[closePhName] = `<${el.name}>`;\n  }\n\n  return new i18n.TagPlaceholder(\n
el.name, attrs, startPhName, closePhName, children, isVoid, el.sourceSpan);\n  }\n/**\n * @param {?} attribute\n *
@param {?} context\n * @return {?} \n */\nvisitAttribute(attribute: html.Attribute, context: any): i18n.Node {\n
return this._visitTextWithInterpolation(attribute.value, attribute.sourceSpan);\n  }\n/**\n * @param {?} text\n *
@param {?} context\n * @return {?} \n */\nvisitText(text: html.Text, context: any): i18n.Node {\n  return
this._visitTextWithInterpolation(text.value, text.sourceSpan);\n  }\n/**\n * @param {?} comment\n * @param {?}

```





No license file was found, but licenses were detected in source scan.

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```

Found in path(s):

```
 * /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/testing/ng_module_resolver_mock.js.map
```

No license file was found, but licenses were detected in source scan.

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```

```

that can be\n * found in the LICENSE file at https://angular.io/license\n *^\n\nimport { SchemaMetadata,
SecurityContext } from '@angular/core';\n/**\n * @abstract\n *^\nexport abstract class ElementSchemaRegistry
{\n/**\n * @abstract\n * @param {?} tagName\n * @param {?} propName\n * @param {?} schemaMetas\n *
@return {?}\n *^\nhasProperty(tagName: string, propName: string, schemaMetas: SchemaMetadata[]) {\n/**\n *
@abstract\n * @param {?} tagName\n * @param {?} schemaMetas\n * @return {?}\n *^\nhasElement(tagName:
string, schemaMetas: SchemaMetadata[]) {\n/**\n * @abstract\n * @param {?} elementName\n * @param {?}
propName\n * @param {?} isAttribute\n * @return {?}\n *^\nsecurityContext(elementName: string, propName:
string, isAttribute: boolean) {\n/**\n * @abstract\n * @return {?}\n *^\nallKnownElementNames() {\n/**\n *
@abstract\n * @param {?} propName\n * @return {?}\n *^\ngetMappedPropName(propName: string) {\n/**\n *
@abstract\n * @return {?}\n *^\ngetDefaultComponentElementName() {\n/**\n * @abstract\n * @param {?}
name\n * @return {?}\n *^\nvalidateProperty(name: string) {\n/**\n * @abstract\n * @param {?} name\n *
@return {?}\n *^\nvalidateAttribute(name: string) {\n/**\n * @abstract\n * @param {?} propName\n * @return
{?}\n *^\nnormalizeAnimationStyleProperty(propName: string) {\n/**\n * @abstract\n * @param {?}
camelCaseProp\n * @param {?} userProvidedProp\n * @param {?} val\n * @return {?}\n
*^\nnormalizeAnimationStyleValue(\n camelCaseProp: string, userProvidedProp: string,\n val: string|number)
{\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/schema/element_schema_registry.js.map

```

No license file was found, but licenses were detected in source scan.

```

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OAC3C,EAAC,kBAaKB,EAAC,MAAM,cAAc;OACxC,EAAC,eAAe,EAAE,SAAS,EAAC,MAAM,uBAaUB;AA
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,CAAC;QACD,EAAE,CAAC,CAAC,eAAe,CAAC,CAAC,CAAC;YACpB,MAAM,IAAI,KAAK,CAAC,gCAA8B,
SAAS,CAAC,IAAI,CAAG,CAAC,CAAC;QACnE,CAAC;QACD,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IAHc
H;QAAC,kBAaKB,EAAE;;oBAAA;IAiCrB,mBAAC;AAAD,CAAC,AAhCD,IAgCC;AAED;IACC,gBAAGB;IACj
B,YAAY,CAAC,SAAS,CAAC,UAAU,CAAC;AACIC,CAAC","sourcesContent":["/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n *^\n\nimport { Pipe, Type, resolveForwardRef } from
'@angular/core';\n\nimport { ListWrapper } from './facade/collection';\nimport { isPresent, stringify } from
'./facade/lang';\nimport { CompilerInjectable } from './injectable';\nimport { ReflectorReader, reflector } from
'./private_import_core';\n/**\n * @param {?} type\n * @return {?}\n *^\nfunction _isPipeMetadata(type: any):
boolean {\n return type instanceof Pipe;\n}\n/**\n * Resolve a `Type` for { @link Pipe }.\n * This interface
can be overridden by the application developer to create custom behavior.\n * See { @link Compiler }\n
*^\n@CompilerInjectable()\nexport class PipeResolver {\n/**\n * @param {?}= _reflector\n *^\nconstructor(private

```



```

= `${builder.fields.length}`;\n const /** @type {?} */ fieldExpr = createBindFieldExpr(bindingId);\n // private is
fine here as no child view will reference the cached value...\n builder.fields.push(new o.ClassField(fieldExpr.name,
null, [o.StmtModifier.Private]));\n builder.ctorStmts.push(o.THIS_EXPR.prop(fieldExpr.name)\n
.set(o.importExpr(createIdentifier(Identifiers.UNINITIALIZED)))\n .toStmt());\n return new
CheckBindingField(fieldExpr, bindingId);\n\n/**\n * @param {?} evalResult\n * @param {?} fieldExpr\n *
@param {?} throwOnChangeVar\n * @param {?} actions\n * @return {?}\n */\nexport function
createCheckBindingStmt(\n evalResult: ConvertPropertyBindingResult, fieldExpr: o.ReadPropExpr,\n
throwOnChangeVar: o.Expression, actions: o.Statement[]): o.Statement[] {\n let /** @type {?} */ condition:
o.Expression = o.importExpr(createIdentifier(Identifiers.checkBinding)).callFn([\n throwOnChangeVar,
fieldExpr, evalResult.currValExpr\n ]);\n if (evalResult.forceUpdate) {\n condition =
evalResult.forceUpdate.or(condition);\n }\n return [\n ...evalResult.stmts, new o.IfStmt(condition,
actions.concat([ /** @type {?} */ (\n
<o.Statement>o.THIS_EXPR.prop(fieldExpr.name).set(evalResult.currValExpr).toStmt()))\n ])\n ];\n\n/**\n *
@param {?} bindingId\n * @return {?}\n */\nfunction createBindFieldExpr(bindingId: string): o.ReadPropExpr {\n
return o.THIS_EXPR.prop(`_expr_${bindingId}`);\n}\n\ninterface DecoratorInvocation {\n type: Function;\n
args?: any[];\n}\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/compiler_util/binding_util.js.map

```

No license file was found, but licenses were detected in source scan.

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AAwB,EAAE,WAAwB;IAC5E,EAAE,CAAC,CAAC,WAAW,KAAK,WAAW,CAAC,CAAC,CAAC;QACH,cMA
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C,CAAC;YACIE,CAAC;QACH,CAAC;QACD,MAAM,CAAC,gBAAK,CAAC,iBAAiB,YAAC,GAAG,EAAE,OA
AO,CAAC,CAAC;IAC/C,CAAC;IACH,8BAAC;AAAD,CAAC,AArCD,CAAsC,CAAC,CAAC,qBAAqB,GAqC5

```





```
elementIndex\n * @return {?} \n *\nexport function getHandleEventMethodName(elementIndex: number): string  
{\n  return `handleEvent_${elementIndex}`;\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?:  
any[];\n}\n}}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/view\_compiler/util.js.map

No license file was found, but licenses were detected in source scan.

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GAAG,OAAO,CAAC","sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\nimport {isPresent} from './facade/lang';\n\nimport * as o from
'./output_ast';\n\nimport {debugOutputAstAsTypeScript} from './ts_emitter';\n\n/**\n * @param {?} statements\n * @param {?} resultVar\n * @return {?} */\n\nexport function interpretStatements(statements: o.Statement[],
resultVar: string): any {\n  const /** @type {?} */ stmtsWithReturn = statements.concat([new
o.ReturnStatement(o.variable(resultVar))]);\n  const /** @type {?} */ ctx = new _ExecutionContext(null, null, null,
new Map<string, any>());\n  const /** @type {?} */ visitor = new StatementInterpreter();\n  const /** @type {?} */
result = visitor.visitAllStatements(stmtsWithReturn, ctx);\n  return isPresent(result) ? result.value : null;\n}\n\n/**\n * @param {?} varNames\n * @param {?} varValues\n * @param {?} statements\n * @param {?} ctx\n * @param
 {?} visitor\n * @return {?} */\n\nfunction _executeFunctionStatements(\n  varNames: string[], varValues: any[],
statements: o.Statement[], ctx: _ExecutionContext,\n  visitor: StatementInterpreter): any {\n  const /** @type {?}
*/ childCtx = ctx.createChildWithLocalVars();\n  for (let /** @type {?} */ i = 0; i < varNames.length; i++) {\n
childCtx.vars.set(varNames[i], varValues[i]);\n  }\n  const /** @type {?} */ result =
visitor.visitAllStatements(statements, childCtx);\n  return isPresent(result) ? result.value : null;\n}\n\nclass
_ExecutionContext {\n  /**\n * @param {?} parent\n * @param {?} instance\n * @param {?} className\n *
@param {?} vars\n * ^\nconstructor(\npublic parent: _ExecutionContext,\npublic instance: any,\npublic className:
string,\npublic vars: Map<string, any>) {\n  /**\n * @return {?} */\n  ^\ncreateChildWithLocalVars():
_ExecutionContext {\n    return new _ExecutionContext(this, this.instance, this.className, new Map<string,
any>());\n  }\n}\n\nfunction _ExecutionContext_tsickle_Closure_declarations() {\n  /** @type {?}
*/\n  ^\n_ExecutionContext.prototype.parent;\n  /** @type {?} */\n  ^\n_ExecutionContext.prototype.instance;\n  /** @type
 {?} */\n  ^\n_ExecutionContext.prototype.className;\n  /** @type {?}
*/\n  ^\n_ExecutionContext.prototype.vars;\n}\n\n\nclass ReturnValue {\n  /**\n * @param {?} value\n
*/\n  ^\nconstructor(public value: any) {\n  }\n\nfunction ReturnValue_tsickle_Closure_declarations() {\n  /** @type {?}
*/\n  ^\nReturnValue.prototype.value;\n}\n\n\n/**\n * @param {?} _classStmt\n * @param {?} _ctx\n * @param {?}
_visitor\n * @return {?} */\n\nfunction createDynamicClass(\n  _classStmt: o.ClassStmt, _ctx: _ExecutionContext,
_visitor: StatementInterpreter): Function {\n  const /** @type {?} */ propertyDescriptors: {[key: string]: any} =
{\n  };\n  _classStmt.getters.forEach((getter: o.ClassGetter) => {\n    // Note: use `function` instead of arrow function
to capture `this`\n    propertyDescriptors[getter.name] = {\n      configurable: false,\n      get: function() {\n        const
/** @type {?} */ instanceCtx = new _ExecutionContext(_ctx, this, _classStmt.name, _ctx.vars);\n        return
_executeFunctionStatements([], [], getter.body, instanceCtx, _visitor);\n      }\n    };\n  });\n  _classStmt.methods.forEach(function(method: o.ClassMethod) {\n    const /** @type {?} */ paramNames =
method.params.map(param => param.name);\n    // Note: use `function` instead of arrow function to capture `this`\n
propertyDescriptors[method.name] = {\n      writable: false,\n      configurable: false,\n      value: function(...args:
any[]) {\n        const /** @type {?} */ instanceCtx = new _ExecutionContext(_ctx, this, _classStmt.name,
_ctx.vars);\n        return _executeFunctionStatements(paramNames, args, method.body, instanceCtx, _visitor);\n      }\n    };\n  });\n  const /** @type {?} */ ctorParamNames = _classStmt.constructorMethod.params.map(param =>
param.name);\n  // Note: use `function` instead of arrow function to capture `this`\n  const /** @type {?} */ ctor =
function(...args: any[]) {\n    const /** @type {?} */ instanceCtx = new _ExecutionContext(_ctx, this,
_classStmt.name, _ctx.vars);\n    _classStmt.fields.forEach((field) => { this[field.name] = undefined; });\n    _executeFunctionStatements(\n      ctorParamNames, args, _classStmt.constructorMethod.body, instanceCtx,

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_visitor);\n }; \n const /** @type {?} */ superClass = _classStmt.parent ?
_classStmt.parent.visitExpression(_visitor, _ctx) : Object;\n ctor.prototype = Object.create(superClass.prototype,
propertyDescriptors);\n return ctor;\n}\n\nclass StatementInterpreter implements o.StatementVisitor,
o.ExpressionVisitor {\n/**\n * @param {?} ast\n * @return {?} */\n *^ndebugAst(ast:
o.Expression|o.Statement|o.Type): string { return debugOutputAstAsTypeScript(ast); }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *^nvisitDeclareVarStmt(stmt: o.DeclareVarStmt, ctx: _ExecutionContext):
any {\n  ctx.vars.set(stmt.name, stmt.value.visitExpression(this, ctx));\n  return null;\n }\n/**\n * @param {?}
expr\n * @param {?} ctx\n * @return {?} */\n *^nvisitWriteVarExpr(expr: o.WriteVarExpr, ctx: _ExecutionContext):
any {\n  const /** @type {?} */ value = expr.value.visitExpression(this, ctx);\n  let /** @type {?} */ currCtx =
ctx;\n  while (currCtx != null) {\n    if (currCtx.vars.has(expr.name)) {\n      currCtx.vars.set(expr.name, value);\n
return value;\n    }\n    currCtx = currCtx.parent;\n  }\n  throw new Error(`Not declared variable
${expr.name}`);\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *^nvisitReadVarExpr(ast:
o.ReadVarExpr, ctx: _ExecutionContext): any {\n  let /** @type {?} */ varName = ast.name;\n  if
(isPresent(ast.builtin)) {\n    switch (ast.builtin) {\n      case o.BuiltinVar.Super:\n        return
ctx.instance.__proto__;\n      case o.BuiltinVar.This:\n        return ctx.instance;\n      case
o.BuiltinVar.CatchError:\n        varName = CATCH_ERROR_VAR;\n        break;\n      case
o.BuiltinVar.CatchStack:\n        varName = CATCH_STACK_VAR;\n        break;\n      default:\n        throw
new Error(`Unknown builtin variable ${ast.builtin}`);\n    }\n  }\n  let /** @type {?} */ currCtx = ctx;\n  while
(currCtx != null) {\n    if (currCtx.vars.has(varName)) {\n      return currCtx.vars.get(varName);\n    }\n
currCtx = currCtx.parent;\n  }\n  throw new Error(`Not declared variable ${varName}`);\n }\n/**\n * @param
{?} expr\n * @param {?} ctx\n * @return {?} */\n *^nvisitWriteKeyExpr(expr: o.WriteKeyExpr, ctx:
_ExecutionContext): any {\n  const /** @type {?} */ receiver = expr.receiver.visitExpression(this, ctx);\n  const
/** @type {?} */ index = expr.index.visitExpression(this, ctx);\n  const /** @type {?} */ value =
expr.value.visitExpression(this, ctx);\n  receiver[index] = value;\n  return value;\n }\n/**\n * @param {?} expr\n * @param {?} ctx\n * @return {?} */\n *^nvisitWritePropExpr(expr: o.WritePropExpr, ctx: _ExecutionContext): any
{\n  const /** @type {?} */ receiver = expr.receiver.visitExpression(this, ctx);\n  const /** @type {?} */ value =
expr.value.visitExpression(this, ctx);\n  receiver[expr.name] = value;\n  return value;\n }\n/**\n * @param {?}
expr\n * @param {?} ctx\n * @return {?} */\n *^nvisitInvokeMethodExpr(expr: o.InvokeMethodExpr, ctx:
_ExecutionContext): any {\n  const /** @type {?} */ receiver = expr.receiver.visitExpression(this, ctx);\n  const
/** @type {?} */ args = this.visitAllExpressions(expr.args, ctx);\n  let /** @type {?} */ result: any;\n  if
(isPresent(expr.builtin)) {\n    switch (expr.builtin) {\n      case o.BuiltinMethod.ConcatArray:\n        result =
receiver.concat(...args);\n        break;\n      case o.BuiltinMethod.SubscribeObservable:\n        result =
receiver.subscribe({next: args[0]});\n        break;\n      case o.BuiltinMethod.Bind:\n        result =
receiver.bind(...args);\n        break;\n      default:\n        throw new Error(`Unknown builtin method
${expr.builtin}`);\n    }\n  } else {\n    result = receiver[expr.name].apply(receiver, args);\n  }\n  return
result;\n }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *^nvisitInvokeFunctionExpr(stmt:
o.InvokeFunctionExpr, ctx: _ExecutionContext): any {\n  const /** @type {?} */ args =
this.visitAllExpressions(stmt.args, ctx);\n  const /** @type {?} */ fnExpr = stmt.fn;\n  if (fnExpr instanceof
o.ReadVarExpr && fnExpr.builtin === o.BuiltinVar.Super) {\n
ctx.instance.constructor.prototype.constructor.apply(ctx.instance, args);\n  return null;\n } else {\n  const /**
@type {?} */ fn = stmt.fn.visitExpression(this, ctx);\n  return fn.apply(null, args);\n }\n }\n/**\n * @param {?}
stmt\n * @param {?} ctx\n * @return {?} */\n *^nvisitReturnStmt(stmt: o.ReturnStatement, ctx: _ExecutionContext):
any {\n  return new ReturnValue(stmt.value.visitExpression(this, ctx));\n }\n/**\n * @param {?} stmt\n * @param
{?} ctx\n * @return {?} */\n *^nvisitDeclareClassStmt(stmt: o.ClassStmt, ctx: _ExecutionContext): any {\n  const
/** @type {?} */ clazz = createDynamicClass(stmt, ctx, this);\n  ctx.vars.set(stmt.name, clazz);\n  return null;\n
}\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *^nvisitExpressionStmt(stmt:
o.ExpressionStatement, ctx: _ExecutionContext): any {\n  return stmt.expr.visitExpression(this, ctx);\n }\n/**\n *
@param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *^nvisitIfStmt(stmt: o.IfStmt, ctx: _ExecutionContext):

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any {\n  const /** @type {?} */ condition = stmt.condition.visitExpression(this, ctx);\n  if (condition) {\n    return this.visitAllStatements(stmt.trueCase, ctx);\n  } else if (isPresent(stmt.falseCase)) {\n    return this.visitAllStatements(stmt.falseCase, ctx);\n  }\n  return null;\n }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *\nvisitTryCatchStmt(stmt: o.TryCatchStmt, ctx: _ExecutionContext): any {\n  try {\n    return this.visitAllStatements(stmt.bodyStmts, ctx);\n  } catch (/** @type {?} */ e) {\n    const /** @type {?} */ childCtx = ctx.createChildWithLocalVars();\n    childCtx.vars.set(CATCH_ERROR_VAR, e);\n    childCtx.vars.set(CATCH_STACK_VAR, e.stack);\n    return this.visitAllStatements(stmt.catchStmts, childCtx);\n  }\n }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *\nvisitThrowStmt(stmt: o.ThrowStmt, ctx: _ExecutionContext): any {\n  throw stmt.error.visitExpression(this, ctx);\n }\n/**\n * @param {?} stmt\n * @param {?=} context\n * @return {?} */\n *\nvisitCommentStmt(stmt: o.CommentStmt, context?: any): any {\n  return null;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitInstantiateExpr(ast: o.InstantiateExpr, ctx: _ExecutionContext): any {\n  const /** @type {?} */ args = this.visitAllExpressions(ast.args, ctx);\n  const /** @type {?} */ clazz = ast.classExpr.visitExpression(this, ctx);\n  return new clazz(...args);\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitLiteralExpr(ast: o.LiteralExpr, ctx: _ExecutionContext): any {\n  return ast.value;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitExternalExpr(ast: o.ExternalExpr, ctx: _ExecutionContext): any {\n  return ast.value.reference;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitConditionalExpr(ast: o.ConditionalExpr, ctx: _ExecutionContext): any {\n  if (ast.condition.visitExpression(this, ctx)) {\n    return ast.trueCase.visitExpression(this, ctx);\n  } else if (isPresent(ast.falseCase)) {\n    return ast.falseCase.visitExpression(this, ctx);\n  }\n  return null;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitNotExpr(ast: o.NotExpr, ctx: _ExecutionContext): any {\n  return !ast.condition.visitExpression(this, ctx);\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitCastExpr(ast: o.CastExpr, ctx: _ExecutionContext): any {\n  return ast.value.visitExpression(this, ctx);\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitFunctionExpr(ast: o.FunctionExpr, ctx: _ExecutionContext): any {\n  const /** @type {?} */ paramNames = ast.params.map((param) => param.name);\n  return _declareFn(paramNames, ast.statements, ctx, this);\n }\n/**\n * @param {?} stmt\n * @param {?} ctx\n * @return {?} */\n *\nvisitDeclareFunctionStmt(stmt: o.DeclareFunctionStmt, ctx: _ExecutionContext): any {\n  const /** @type {?} */ paramNames = stmt.params.map((param) => param.name);\n  ctx.vars.set(stmt.name, _declareFn(paramNames, stmt.statements, ctx, this));\n  return null;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitBinaryOperatorExpr(ast: o.BinaryOperatorExpr, ctx: _ExecutionContext): any {\n  const /** @type {?} */ lhs = () => ast.lhs.visitExpression(this, ctx);\n  const /** @type {?} */ rhs = () => ast.rhs.visitExpression(this, ctx);\n  switch (ast.operator) {\n    case o.BinaryOperator.Equals:\n      return lhs() == rhs();\n    case o.BinaryOperator.Identical:\n      return lhs() === rhs();\n    case o.BinaryOperator.NotEquals:\n      return lhs() != rhs();\n    case o.BinaryOperator.NotIdentical:\n      return lhs() !== rhs();\n    case o.BinaryOperator.And:\n      return lhs() && rhs();\n    case o.BinaryOperator.Or:\n      return lhs() || rhs();\n    case o.BinaryOperator.Plus:\n      return lhs() + rhs();\n    case o.BinaryOperator.Minus:\n      return lhs() - rhs();\n    case o.BinaryOperator.Divide:\n      return lhs() / rhs();\n    case o.BinaryOperator.Multiply:\n      return lhs() * rhs();\n    case o.BinaryOperator.Modulo:\n      return lhs() % rhs();\n    case o.BinaryOperator.Lower:\n      return lhs() < rhs();\n    case o.BinaryOperator.LowerEquals:\n      return lhs() <= rhs();\n    case o.BinaryOperator.Bigger:\n      return lhs() > rhs();\n    case o.BinaryOperator.BiggerEquals:\n      return lhs() >= rhs();\n    default:\n      throw new Error(`Unknown operator ${ast.operator}`);\n  }\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitReadPropExpr(ast: o.ReadPropExpr, ctx: _ExecutionContext): any {\n  let /** @type {?} */ result: any;\n  const /** @type {?} */ receiver = ast.receiver.visitExpression(this, ctx);\n  result = receiver[ast.name];\n  return result;\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n *\nvisitReadKeyExpr(ast: o.ReadKeyExpr, ctx: _ExecutionContext): any {\n  const /** @type {?} */ receiver = ast.receiver.visitExpression(this, ctx);\n  const /** @type {?} */ prop = ast.index.visitExpression(this, ctx);\n  return receiver[prop];\n }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?} */\n }

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*\nvisitLiteralArrayExpr(ast: o.LiteralArrayExpr, ctx: _ExecutionContext): any {\n  return
this.visitAllExpressions(ast.entries, ctx);\n } \n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n
*\nvisitLiteralMapExpr(ast: o.LiteralMapExpr, ctx: _ExecutionContext): any {\n  const /** @type {?} */ result =
{};\n  ast.entries.forEach(\n    (entry) => ( /** @type {?} */((result as any))[entry.key] =
entry.value.visitExpression(this, ctx));\n  return result;\n } \n/**\n * @param {?} expressions\n * @param {?}
ctx\n * @return {?}\n
*\nvisitAllExpressions(expressions: o.Expression[], ctx: _ExecutionContext): any {\n
return expressions.map((expr) => expr.visitExpression(this, ctx));\n } \n/**\n * @param {?} statements\n * @param
{?} ctx\n * @return {?}\n
*\nvisitAllStatements(statements: o.Statement[], ctx: _ExecutionContext): ReturnValue
{\n  for (let /** @type {?} */ i = 0; i < statements.length; i++) {\n    const /** @type {?} */ stmt = statements[i];\n
const /** @type {?} */ val = stmt.visitStatement(this, ctx);\n    if (val instanceof ReturnValue) {\n      return
val;\n    }\n    return null;\n  }\n } \n/**\n * @param {?} varNames\n * @param {?} statements\n * @param
{?} ctx\n * @param {?} visitor\n * @return {?}\n
*\nfunction _declareFn(\n  varNames: string[], statements:
o.Statement[], ctx: _ExecutionContext,\n  visitor: StatementInterpreter): Function {\n  return (...args: any[]) =>
_executeFunctionStatements(varNames, args, statements, ctx, visitor);\n } \n\nconst /** @type {?} */
CATCH_ERROR_VAR = 'error';\nconst /** @type {?} */ CATCH_STACK_VAR = 'stack';\n\ninterface
DecoratorInvocation {\n  type: Function;\n  args?: any[];\n } \n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/output\_interpreter.js.map

No license file was found, but licenses were detected in source scan.

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CAAC,MAAM,CAAC,EAAE,UAAU,CAAC,WAAW,CAAC,CAAC,CAAC;gCAC9E,CAAC;gCACD,MAAM,IAAI,KAAC,CAAC,OAAO,CAAC,CAAC;wBAC7B,CAAC;wBACD,MAAM,CAAC,IAAI,CAAC;oBACd,CAAC;oBACD,MAAM,CAAC,YAAY,CAAC,UAAU,EAAE,UAAC,KAAC,EAAE,IAAI,IAAK,OAAA,QAAQ,CAAC,KAAC,CAAC,EAAf,CAAe,CAAC,CAAC;gBACpE,CAAC;gBACD,MAAM,CAAC,IAAI,CAAC;YACd,CAAC;YAE D,IAAI,CAAC;gBACH,MAAM,CAAC,QAAQ,CAAC,KAAC,CAAC,CAAC;YACzB,CAAe;YAAA,KAAC,CAA C,CAAkB,CAAC,CAAC,CAAC,CAAC;gBAC5B,IAAM,gBAAGB,CAAC,OAAO,GAAG,OAAO,CAAC,OAAO,C AAC,MAAM,GAAG,MAAI,OAAO,CAAC,OAAO,CAAC,IAAI,CAAC,GAAG,CAAG,GAAG,EAAE,CAAC;gB AC/F,IAAM,gBAAGB,CAAC,OAAO,GACvB,CAAC,CAAC,OAAO,2BAAsB,OAAO,CAAC,IAAI,GAAG,OAAO ,YAAO,OAAO,CAAC,QAAU,CAAC;gBACtF,EAAE,CAAC,CAAC,CAAC,CAAC,QAAQ,CAAC,CAAC,CAAC; oBACf,MAAM,eAAe,CAAC,OAAO,EAAE,CAAC,CAAC,QAAQ,EAAE,CAAC,CAAC,IAAI,EAAE,CAAC,CA AC,MAAM,CAAC,CAAC;gBAC/D,CAAC;gBACD,MAAM,IAAI,KAAC,CAAC,OAAO,CAAC,CAAC;YAC3B, CAAC;QACH,CAAC;QAED,IAAM,gBAAGB,CAAC,yBAAYB,GAAG,UAAC,OAAqB,EAAE,KAAU,EAAE,KA Aa;YACIG,IAAI,CAAC;gBACH,MAAM,CAAC,iBAAiB,CAAC,OAAO,EAAE,KAAC,EAAE,KAAC,CAAC,CA AC;YACID,CAAe;YAAA,KAAC,CAAC,CAAkB,CAAC,CAAC,CAAC,CAAC;gBAC5B,KAAI,CAAC,WAAW, CAAC,CAAC,EAAE,OAAO,CAAC,CAAC;YAC/B,CAAC;QACH,CAAC,CAAC;QAEF,IAAM,gBAAGB,CAAC, MAAM,GAAG,IAAI,CAAC,aAAa,GAAG,yBAAYB,CAAC,OAAO,EAAE,KAAC,EAAE,CAAC,CAAC;YAC7D, iBAAiB,CAAC,OAAO,EAAE,KAAC,EAAE,CAAC,CAAC,CAAC;QACzE,EAAE,CAAC,CAAC,YAAY,CAAC, MAAM,CAAC,CAAC,CAAC;YACzB,MAAM,CAAC,SAAS,CAAC;QACnB,CAAC;QACD,MAAM,CAA C,MAAM,CAAC;IACHB,CAAC;IACH;;;OAGG;IACK,yCAAe,GAAvB,UAAwB,IAAkB;QACtC,IAAM,gBAAGB ,CAAC,cAAc,GAAG,IAAI,CAAC,cAAc,CAAC,aAAa,CAAC,IAAI,CAAC,CAAC;QACHf,MAAM,CAAC,cAAc, IAAI,cAAc,CAAC,QAAQ,GAAG,cAAc,CAAC,QAAQ;YACvB,EAAC,UAAU,EAAE,OAAO,EAAC,CAAC;IAC 3E,CAAC;IACH,sBAAC;AAAD,CAAC,AArmBD,IAqmBC;AAED;IACC,gBAAGB;IACjB,eAAe,CAAC,SAAS,C AAC,eAAe,CAAC;IACzC,gBAAGB;IACjB,eAAe,CAAC,SAAS,CAAC,aAAa,CAAC;IACvC,gBAAGB;IACjB,eA Ae,CAAC,SAAS,CAAC,cAAc,CAAC;IACxC,gBAAGB;IACjB,eAAe,CAAC,SAAS,CAAC,WAAW,CAAC;IACr C,gBAAGB;IACjB,eAAe,CAAC,SAAS,CAAC,aAAa,CAAC;IACvC,gBAAGB;IACjB,eAAe,CAAC,SAAS,CAAC, WAAW,CAAC;IACrC,gBAAGB;IACjB,eAAe,CAAC,SAAS,CAAC,cAAc,CAAC;IACxC,gBAAGB;IACjB,eAAe, CAAC,SAAS,CAAC,aAAa,CAAC;AACxC,CAAC;AAED;;;GAGG;AACH,yBAAYB,KAAU;IACjC,MAAM,CAA C,CAAC,KAAC,CAAC,OAAO,CAAC,CAAC,CAAC;QACtB,KAAC,iCAAiC;YACpC,EAAE,CAAC,CAAC,KA AK,CAAC,OAAO,IAAI,KAAC,CAAC,OAAO,CAAC,SAAS,CAAC,CAAC,CAAC;gBAC7C,MAAM,CAAC,uC AAqC,KAAC,CAAC,OAAO,CAAC,SAAS,mCAAgC,CAAC;YACtG,CAAC;YACD,KAAC,CAAC;QACR,KAA K,0BAA0B;YAC7B,MAAM,CAAC,kIAAkI,CAAC;QAC5I,KAAC,6BAA6B;YACHc,MAAM,CAAC,uJAAuJ,CA AC;QACjK,KAAC,wBAAwB;YAC3B,EAAE,CAAC,CAAC,KAAC,CAAC,OAAO,IAAI,KAAC,CAAC,OAAO, CAAC,QAAQ,CAAC,CAAC,CAAC;gBAC5C,MAAM,CAAC,4BAA0B,KAAC,CAAC,OAAO,CAAC,QAAU,CA AC;YAC5D,CAAC;YACD,KAAC,CAAC;QACR,KAAC,6BAA6B;YACHc,IAAI,gBAAGB,CAAC,MAAM,GAC vB,KAAC,CAAC,OAAO,IAAI,KAAC,CAAC,OAAO,CAAC,IAAI,GAAG,uBAaqB,KAAC,CAAC,OAAO,CAA C,IAAI,SAAM,GAAG,GAAG,CAAC;YAC9F,MAAM,CAAC,MAAM;gBACT,qHAAqH,CAAC;QAC5H,KAAC, 6BAA6B;YACHc,EAAE,CAAC,CAAC,KAAC,CAAC,OAAO,IAAI,KAAC,CAAC,OAAO,CAAC,IAAI,CAAC,C AAC,CAAC;gBACxC,MAAM,CAAC,iDAA+C,KAAC,CAAC,OAAO,CAAC,IAAI,qCAAkC,CAAC;YAC7G,CA AC;YACD,KAAC,CAAC;IACV,CAAC;IACD,MAAM,CAAC,KAAC,CAAC,OAAO,CAAC;AACvB,CAAC;AA CD;;;GAGG;AACH,6BAA6B,KAAU;IACrC,MAAM,CAAC,2DAAYD,eAAe,CAAC,KAAC,CAAG,CAAC;AAC3 F,CAAC;AACD;;;GAIG;AACH,sBAAsB,KAA2B,EAAE,SAA2C;IAE5F,EAAE,CAAC,CAAC,CAAC,KAAC,C AAC;QAAC,MAAM,CAAC,EAAE,CAAC;IACtB,IAAM,gBAAGB,CAAC,MAAM,GAAYB,EAAE,CAAC;IACzD ,MAAM,CAAC,IAAI,CAAC,KAAC,CAAC,CAAC,OAAO,CAAC,UAAC,GAAG;QAC7B,IAAM,gBAAGB,CAA C,KAAC,GAAG,SAAS,CAAC,KAAC,CAAC,GAAG,CAAC,EAAE,GAAG,CAAC,CAAC;QACID,EAAE,CAAC ,CAAC,CAAC,YAAY,CAAC,KAAC,CAAC,CAAC,CAAC,CAAC;YACzB,EAAE,CAAC,CAAC,UAAU,CAAC,IA AI,CAAC,GAAG,CAAC,CAAC,CAAC,CAAC;gBACzB,MAAM,CAAC,cAAc,CAAC,MAAM,EAAE,GAAG,E AAe,EAAC,UAAU,EAAE,KAAC,EAAE,YAAY,EAAE,IAAI,EAAE,KAAC,EAAE,KAAC,EAAC,CAAC,CAAC ;YAC5F,CAAC;YAAC,IAAI,CAAC,CAAC;gBACN,MAAM,CAAC,GAAG,CAAC,GAAG,KAAC,CAAC;YACt

B,CAAC;QACH,CAAC;IACH,CAAC,CAAC,CAAC;IACH,MAAM,CAAC,MAAM,CAAC;AAChB,CAAC;AACD;GAGG;AACH,qBAAqB,CAAM;IACzB,MAAM,CAAC,CAAC,KAAK,IAAI,IAAI,CAAC,OAAO,CAAC,KAAK,UAAU,IAAI,OAAO,CAAC,KAAK,QAAQ,CAAC,CAAC;AACIE,CAAC;AAMD;GAEG;AACH;IAAA;IAwBA,CAAC;IAvBD;;;OAIG;IACH,8BAAO,GAAP,UAAQ,IAAY,IAAG,CAAC;IAGxB;OAE;IACW,kBAAK,GAAnB;QACI,IAAM,gBAAgB,CAAC,OAAO,GAAG,IAAI,GAAG,EAAe,CAAC;QACxD,MAAM,CAAC;YACL,MAAM,EAAE,UAAS,IAAI,EAAE,KAAK;gBACIB,OAAO,CAAC,GAAG,CAAC,IAAI,EAAE,KAAK,CAAC,CAAC;gBACzB,MAAM,CAAC,IAAI,CAAC;YACd,CAAC;YACD,IAAI,EAAE;gBACJ,MAAM,CAAC,OAAO,CAAC,IAAI,GAAG,CAAC,GAAG,IAAI,cAAc,CAAC,OAAO,CAAC,GAAG,YAAY,CAAC,KAAK,CAAC;YAC7E,CAAC;SACF,CAAC;IACJ,CAAC;IAhBW,oBAAO,GAAG,EAAE,CAAC;IACb,kBAAK,GAAiB,EAAC,OAAO,EAAE,UAAA,IAAI,IAAI,OAAA,YAAY,CAAC,OAAO,EAAPB,CAAoB,EAAC,CAAC;IAGB5E,mBAAC;AAAD,CAAC,AAxBD,IAwBC;AAED;IACC,gBAAgB;IACjB,YAAY,CAAC,OAAO,CAAC;IACpB,gBAAgB;IACjB,YAAY,CAAC,KAAK,CAAC;AACnB,CAAC;AAGD;IAA6B,kCAAY;IACzC;OAE;IACH,wBAAoB,QAA0B;QAAliBAAO,CAAC;QAAiC,aAAQ,GAAR,QAAQ,CAAkB;IAAa,CAAC;IAC5D;OAGG;IACH,gCAAQ,GAAP,UA AQ,IAAY;QACHB,MAAM,CAAC,IAAI,CAAC,QAAQ,CAAC,GAAG,CAAC,IAAI,CAAC,GAAG,IAAI,CAAC,QAAQ,CAAC,GAAG,CAAC,IAAI,CAAC,GAAG,YAAY,CAAC,OAAO,CAAC;IACIF,CAAC;IACH,qBAAC;AAD,CAAC,AAZD,CAA6B,YAAY,GAYxC;AAED;IACC,gBAAgB;IACjB,cAAc,CAAC,SAAS,CAAC,QAAQ,CAAC;AACIC,CAAC;AAED;GAIG;AACH,oBAAoB,CAAe,EAAE,CAAe;IACID,MAAM,CAAC,CAAC,KAAK,CAAC,CAAC;AACjB,CAAC;AACD;GAGG;AACH,sBAAsB,KAAU;IAC9B,MAAM,CAAC,KAAK,IAAI,KAAK,CAAC,UAAU,IAAI,QAAQ,CAAC;AAC/C,CAAC;AACD;GAMG;AACH,yBAAyB,OAAe,EAAE,QAAgB,EAAE,IAAY,EAAE,MAAc;IACf,IAAM,gBAAgB,CAAC,MAAM,GAAG,IAAI,KAAK,CAAC,OAAO,CAAC,CAAC;IACnD,CAAkB,CAAe,MAAc,CAAC,CAAC,CAAC,QAAQ,GAAG,QAAQ,CAAC;IACzD,CAAkB,CAAe,MAAc,CAAC,CAAC,CAAC,IAAI,GAAG,IAAI,CAAC;IACjD,CAAkB,CAAe,MAAc,CAAC,CAAC,CAAC,MAAM,GAAG,MAAM,CAAC;IACrD,MAAM,CAAC,MAAM,CAAC;AAChB,CAAC", "sourcesContent": ["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\nimport { Attribute, Component, ContentChild, ContentChildren, Directive, Host, HostBinding, HostListener, Inject, Injectable, Input, NgModule, Optional, Output, Pipe, Self, SkipSelf, ViewChild, ViewChildren, animate, group, keyframes, sequence, state, style, transition, trigger } from '@angular/core';\n\nimport { ReflectorReader } from './private\_import\_core';\n\nimport { StaticSymbol, StaticSymbolCache } from './static\_symbol';\n\nimport { ResolvedStaticSymbol, StaticSymbolResolver } from './static\_symbol\_resolver';\n\nconst /\*\* @type {?} \*/ ANGULAR\_IMPORT\_LOCATIONS = {\n coreDecorators: '@angular/core/src/metadata',\n diDecorators: '@angular/core/src/di/metadata',\n diMetadata: '@angular/core/src/di/metadata',\n diOpaqueToken: '@angular/core/src/di/opaque\_token',\n animationMetadata: '@angular/core/src/animation/metadata',\n provider: '@angular/core/src/di/provider'\n};\n\nconst /\*\* @type {?} \*/ HIDDEN\_KEY = /\\".\$.\*\\"\$/;\n\n/\*\*\n \* A static reflector implements enough of the Reflector API that is necessary to compile\n \* templates statically.\n \*/\nexport class StaticReflector implements ReflectorReader {\n private annotationCache = new Map<StaticSymbol, any[]>();\n private propertyCache = new Map<StaticSymbol, {[key: string]: any[]}>();\n private parameterCache = new Map<StaticSymbol, any[]>();\n private methodCache = new Map<StaticSymbol, {[key: string]: boolean}>();\n private conversionMap = new Map<StaticSymbol, (context: StaticSymbol, args: any[]) => any>();\n private opaqueToken: StaticSymbol;\n\n /\*\*\n \* @param {?} symbolResolver\n \* @param {?=} knownMetadataClasses\n \* @param {?=} knownMetadataFunctions\n \* @param {?=} errorRecorder\n \*/\n constructor(\n private symbolResolver: StaticSymbolResolver,\n knownMetadataClasses: {name: string, filePath: string, ctor: any[]} = [],\n knownMetadataFunctions: {name: string, filePath: string, fn: any[]} = [],\n private errorRecorder?: (error: any, fileName: string) => void) {\n this.initializeConversionMap();\n\n knownMetadataClasses.forEach(\n (kc) => this.\_registerDecoratorOrConstructor(\n this.getStaticSymbol(kc.filePath, kc.name), kc.ctor);\n\n knownMetadataFunctions.forEach(\n (kf) => this.\_registerFunction(this.getStaticSymbol(kf.filePath, kf.name), kf.fn));\n }\n\n /\*\*\n \* @param {?} typeOrFunc\n \* @return {?} \*/\n importUri(typeOrFunc: StaticSymbol): string {\n const /\*\* @type {?} \*/ staticSymbol =



```

this.findSymbolDeclaration(typeOrFunc);\n  return staticSymbol ? staticSymbol.filePath : null;\n }\n/**\n *
@param {?} name\n * @param {?} moduleUrl\n * @return {?}\n *\nresolveIdentifier(name: string, moduleUrl:
string): StaticSymbol {\n  return this.findDeclaration(moduleUrl, name);\n }\n/**\n * @param {?} moduleUrl\n *
@param {?} name\n * @param {?=} containingFile\n * @return {?}\n *\nfindDeclaration(moduleUrl: string,
name: string, containingFile?: string): StaticSymbol {\n  return this.findSymbolDeclaration(\n
this.symbolResolver.getSymbolByModule(moduleUrl, name, containingFile));\n }\n/**\n * @param {?} symbol\n *
@return {?}\n *\nfindSymbolDeclaration(symbol: StaticSymbol): StaticSymbol {\n  const /** @type {?} */
resolvedSymbol = this.symbolResolver.resolveSymbol(symbol);\n  if (resolvedSymbol &&
resolvedSymbol.metadata instanceof StaticSymbol) {\n    return
this.findSymbolDeclaration(resolvedSymbol.metadata);\n  } else {\n    return symbol;\n  }\n }\n/**\n * @param
 {?} enumIdentifier\n * @param {?} name\n * @return {?}\n *\nresolveEnum(enumIdentifier: any, name: string):
any {\n  const /** @type {?} */ staticSymbol: StaticSymbol = enumIdentifier;\n  return
this.getStaticSymbol(staticSymbol.filePath, staticSymbol.name, [name]);\n }\n/**\n * @param {?} type\n *
@return {?}\n *\npublic annotations(type: StaticSymbol): any[] {\n  let /** @type {?} */ annotations =
this.annotationCache.get(type);\n  if (!annotations) {\n    annotations = [];\n    const /** @type {?} */
classMetadata = this.getTypeMetadata(type);\n    if (classMetadata['extends']) {\n      const /** @type {?} */
parentAnnotations = this.annotations(this.simplify(type, classMetadata['extends']));\n      annotations.push(...parentAnnotations);\n    }\n    if (classMetadata['decorators']) {\n      const /** @type {?} */
ownAnnotations: any[] = this.simplify(type, classMetadata['decorators']);\n      annotations.push(...ownAnnotations);\n    }\n    this.annotationCache.set(type, annotations.filter(ann => !!ann));\n  }\n  return annotations;\n }\n/**\n * @param {?} type\n * @return {?}\n *\npublic propMetadata(type:
StaticSymbol): {[key: string]: any[]} {\n  let /** @type {?} */ propMetadata = this.propertyCache.get(type);\n  if
(!propMetadata) {\n    const /** @type {?} */ classMetadata = this.getTypeMetadata(type);\n    propMetadata =
{};\n    if (classMetadata['extends']) {\n      const /** @type {?} */ parentPropMetadata =
this.propMetadata(this.simplify(type, classMetadata['extends']));\n      Object.keys(parentPropMetadata).forEach((parentProp) => {\n        propMetadata[parentProp] =
parentPropMetadata[parentProp];\n      });\n    }\n    const /** @type {?} */ members =
classMetadata['members'] || {};\n    Object.keys(members).forEach((propName) => {\n      const /** @type {?} */
propData = members[propName];\n      const /** @type {?} */ prop = ( /** @type {?} */ /((<any[]>propData)))\n
.find(a => a['__symbolic'] == 'property' || a['__symbolic'] == 'method');\n      const /** @type {?} */
decorators: any[] = [];\n      if (propMetadata[propName]) {\n        decorators.push(...propMetadata[propName]);\n      }\n      propMetadata[propName] = decorators;\n      if (prop && prop['decorators']) {\n
decorators.push(...this.simplify(type, prop['decorators']));\n      }\n    });\n    this.propertyCache.set(type,
propMetadata);\n  }\n  return propMetadata;\n }\n/**\n * @param {?} type\n * @return {?}\n *\npublic
parameters(type: StaticSymbol): any[] {\n  if (!(type instanceof StaticSymbol)) {\n    this.reportError(\n      new
Error('parameters received ${JSON.stringify(type)} which is not a StaticSymbol'),\n      type);\n    return [];\n  }\n  try {\n    let /** @type {?} */ parameters = this.parameterCache.get(type);\n    if (!parameters) {\n      const
/** @type {?} */ classMetadata = this.getTypeMetadata(type);\n      const /** @type {?} */ members =
classMetadata ? classMetadata['members'] : null;\n      const /** @type {?} */ ctorData = members ?
members['__ctor__'] : null;\n      if (ctorData) {\n        const /** @type {?} */ ctor = ( /** @type {?} */
*/((<any[]>ctorData))).find(a => a['__symbolic'] == 'constructor');\n        const /** @type {?} */ parameterTypes =
/** @type {?} */ */(( <any[]>this.simplify(type, ctor['parameters'] || []));\n        const /** @type {?} */
parameterDecorators = /** @type {?} */ */(( <any[]>this.simplify(type, ctor['parameterDecorators'] || []));\n        parameters = [];\n        parameterTypes.forEach((paramType, index) => {\n          const /** @type {?} */
nestedResult: any[] = [];\n          if (paramType) {\n            nestedResult.push(paramType);\n          }\n          const /** @type {?} */ decorators = parameterDecorators ? parameterDecorators[index] : null;\n          if
(decorators) {\n            nestedResult.push(...decorators);\n          }\n          parameters.push(nestedResult);\n        });\n      } else if (classMetadata['extends']) {\n        parameters = this.parameters(this.simplify(type,

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classMetadata['extends']);\n    }\n    if (!parameters) {\n        parameters = [];\n    }\n    this.parameterCache.set(type, parameters);\n    }\n    return parameters;\n    } catch (/** @type {?} */e) {\n        console.error(`Failed on type ${JSON.stringify(type)} with error ${e}`);\n        throw e;\n    }\n}\n\n/**\n * @param\n * {?} type\n * @return\n * ?\n */\nprivate _methodNames(type: any): {[key: string]: boolean} {\n    let /** @type {?} */\n    * / methodNames = this.methodCache.get(type);\n    if (!methodNames) {\n        const /** @type {?} */ classMetadata\n        = this.getTypeMetadata(type);\n        methodNames = {};\n        if (classMetadata['extends']) {\n            const /** @type\n            {?} */ parentMethodNames = this._methodNames(this.simplify(type, classMetadata['extends']));\n            Object.keys(parentMethodNames).forEach((parentProp) => {\n                methodNames[parentProp] =\n                parentMethodNames[parentProp];\n            });\n        }\n        const /** @type {?} */ members =\n        classMetadata['members'] || {};\n        Object.keys(members).forEach((propName) => {\n            const /** @type {?} */\n            propData = members[propName];\n            const /** @type {?} */ isMethod = (/** @type {?} */\n            * /((<any[]>propData)).some(a => a['__symbolic'] == 'method'));\n            methodNames[propName] =\n            methodNames[propName] || isMethod;\n        });\n        this.methodCache.set(type, methodNames);\n    }\n    return\n    methodNames;\n}\n\n/**\n * @param\n * {?} type\n * @param\n * {?} lcProperty\n * @return\n * ?\n */\nprivate\n * /_hasLifecycleHook(type: any, lcProperty: string): boolean {\n    if (!(type instanceof StaticSymbol)) {\n        this.reportError(\n            new Error(\n                `hasLifecycleHook received ${JSON.stringify(type)} which is not a\n                StaticSymbol`),\n            type);\n    }\n    try {\n        return !!this._methodNames(type)[lcProperty];\n    } catch (/**\n    * @type\n    * {?} */e) {\n        console.error(`Failed on type ${JSON.stringify(type)} with error ${e}`);\n        throw e;\n    }\n}\n\n/**\n * @param\n * {?} type\n * @param\n * {?} ctor\n * @return\n * ?\n */\nprivate\n * /_registerDecoratorOrConstructor(type: StaticSymbol, ctor: any): void {\n    this.conversionMap.set(type, (context:\n    StaticSymbol, args: any[]) => new ctor(...args));\n}\n\n/**\n * @param\n * {?} type\n * @param\n * {?} fn\n * @return\n * ?\n */\nprivate\n * /_registerFunction(type: StaticSymbol, fn: any): void {\n    this.conversionMap.set(type, (context:\n    StaticSymbol, args: any[]) => fn.apply(undefined, args));\n}\n\n/**\n * @return\n * ?\n */\nprivate\n * /initializeConversionMap(): void {\n    const {coreDecorators, diDecorators, diMetadata, diOpaqueToken,\n    animationMetadata, provider} =\n    ANGULAR_IMPORT_LOCATIONS;\n    this.opaqueToken =\n    this.findDeclaration(diOpaqueToken, 'OpaqueToken');\n\n    this._registerDecoratorOrConstructor(this.findDeclaration(diDecorators, 'Host'), Host);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(diDecorators, 'Injectable'), Injectable);\n    this._registerDecoratorOrConstructor(this.findDeclaration(diDecorators, 'Self'), Self);\n    this._registerDecoratorOrConstructor(this.findDeclaration(diDecorators, 'SkipSelf'), SkipSelf);\n    this._registerDecoratorOrConstructor(this.findDeclaration(diDecorators, 'Inject'), Inject);\n    this._registerDecoratorOrConstructor(this.findDeclaration(diDecorators, 'Optional'), Optional);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'Attribute'), Attribute);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'ContentChild'), ContentChild);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'ContentChildren'),\n        ContentChildren);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators,\n        'ViewChild'), ViewChild);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators,\n        'ViewChildren'), ViewChildren);\n    this._registerDecoratorOrConstructor(this.findDeclaration(coreDecorators,\n    'Input'), Input);\n    this._registerDecoratorOrConstructor(this.findDeclaration(coreDecorators, 'Output'), Output);\n    this._registerDecoratorOrConstructor(this.findDeclaration(coreDecorators, 'Pipe'), Pipe);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'HostBinding'), HostBinding);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'HostListener'), HostListener);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'Directive'), Directive);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'Component'), Component);\n    this._registerDecoratorOrConstructor(\n        this.findDeclaration(coreDecorators, 'NgModule'), NgModule);\n}\n\n//\nNote: Some metadata classes can be used directly with Provider.deps.\n\nthis._registerDecoratorOrConstructor(this.findDeclaration(diMetadata, 'Host'), Host);\nthis._registerDecoratorOrConstructor(this.findDeclaration(diMetadata, 'Self'), Self);\n
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this._registerDecoratorOrConstructor(this.findDeclaration(diMetadata, 'SkipSelf'), SkipSelf);\n
this._registerDecoratorOrConstructor(this.findDeclaration(diMetadata, 'Optional'), Optional);\n\n
this._registerFunction(this.findDeclaration(animationMetadata, 'trigger'), trigger);\n
this._registerFunction(this.findDeclaration(animationMetadata, 'state'), state);\n
this._registerFunction(this.findDeclaration(animationMetadata, 'transition'), transition);\n
this._registerFunction(this.findDeclaration(animationMetadata, 'style'), style);\n
this._registerFunction(this.findDeclaration(animationMetadata, 'animate'), animate);\n
this._registerFunction(this.findDeclaration(animationMetadata, 'keyframes'), keyframes);\n
this._registerFunction(this.findDeclaration(animationMetadata, 'sequence'), sequence);\n
this._registerFunction(this.findDeclaration(animationMetadata, 'group'), group);\n } \n/**\n * getStaticSymbol
produces a Type whose metadata is known but whose implementation is not loaded.\n * All types passed to the
StaticResolver should be pseudo-types returned by this method.\n * *\n * @param {?} declarationFile the absolute
path of the file where the symbol is declared\n * @param {?} name the name of the type.\n * @param {?=}
members\n * @return {?} \n */\n getStaticSymbol(declarationFile: string, name: string, members?: string[]):
StaticSymbol {\n   return this.symbolResolver.getStaticSymbol(declarationFile, name, members);\n } \n/**\n *
@param {?} error\n * @param {?} context\n * @param {?=} path\n * @return {?} \n */\n private reportError(error:
Error, context: StaticSymbol, path?: string) {\n   if (this.errorRecorder) {\n     this.errorRecorder(error, (context &&
context.filePath) || path);\n   } else {\n     throw error;\n   } \n } \n/**\n * @param {?} context\n * @param {?}
value\n * @return {?} \n */\n public simplify(context: StaticSymbol, value: any): any {\n   const /** @type {?} */
self = this;\n   let /** @type {?} */ scope = BindingScope.empty;\n   const /** @type {?} */ calling = new
Map<StaticSymbol, boolean>();\n   /**\n * @param {?} context\n * @param {?} value\n * @param {?} depth\n *
@return {?} \n */\n   function simplifyInContext(context: StaticSymbol, value: any, depth: number): any {\n     /**\n *
@param {?} staticSymbol\n * @return {?} \n */\n     function resolveReferenceValue(staticSymbol: StaticSymbol): any
{\n       const /** @type {?} */ resolvedSymbol = self.symbolResolver.resolveSymbol(staticSymbol);\n       return
resolvedSymbol ? resolvedSymbol.metadata : null;\n     } \n     /**\n * @param {?} functionSymbol\n * @param {?}
targetFunction\n * @param {?} args\n * @return {?} \n */\n     function simplifyCall(functionSymbol: StaticSymbol,
targetFunction: any, args: any[]) {\n       if (targetFunction && targetFunction['__symbolic'] === 'function') {\n
if (calling.get(functionSymbol)) {\n         throw new Error('Recursion not supported');\n       } \n
calling.set(functionSymbol, true);\n       try {\n         const /** @type {?} */ value = targetFunction['value'];\n
if (value && (depth !== 0 || value.__symbolic !== 'error')) {\n           const /** @type {?} */ parameters: string[] =
targetFunction['parameters'];\n           const /** @type {?} */ defaults: any[] = targetFunction.defaults;\n           if
(defaults && defaults.length > args.length) {\n             args.push(...defaults.slice(args.length).map((value: any) =>
simplify(value)));\n           } \n           const /** @type {?} */ functionScope = BindingScope.build();\n           for
(let /** @type {?} */ i = 0; i < parameters.length; i++) {\n             functionScope.define(parameters[i],
args[i]);\n           } \n           const /** @type {?} */ oldScope = scope;\n           let /** @type {?} */ result:
any;\n           try {\n             scope = functionScope.done();\n             result =
simplifyInContext(functionSymbol, value, depth + 1);\n           } finally {\n             scope = oldScope;\n
}\n           return result;\n         } \n       } finally {\n         calling.delete(functionSymbol);\n       } \n     } \n
if (depth === 0) {\n       // If depth is 0 we are evaluating the top level expression that is describing element\n
// decorator. In this case, it is a decorator we don't understand, such as a custom\n       // non-angular decorator,
and we should just ignore it.\n       return {__symbolic: 'ignore'};\n     } \n     return simplify(\n
{__symbolic: 'error', message: 'Function call not supported', context: functionSymbol});\n   } \n } \n/**\n * @param
{?} expression\n * @return {?} \n */\n   function simplify(expression: any): any {\n     if (isPrimitive(expression))
{\n       return expression;\n     } \n     if (expression instanceof Array) {\n       const /** @type {?} */ result:
any[] = [];\n       for (const /** @type {?} */ item of (<any>expression)) {\n         // Check
for a spread expression\n         if (item && item.__symbolic === 'spread') {\n           const /** @type {?} */
spreadArray = simplify(item.expression);\n           if (Array.isArray(spreadArray)) {\n             for (const /**
@param {?} */ spreadItem of spreadArray) {\n               result.push(spreadItem);\n             } \n

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continue;\n        }\n        }\n        const /** @type {?} */ value = simplify(item);\n        if
(shouldIgnore(value)) {\n        continue;\n        }\n        result.push(value);\n        }\n        return result;\n
    }\n    if (expression instanceof StaticSymbol) {\n        // Stop simplification at builtin symbols\n        if
(expression === self.opaqueToken || self.conversionMap.has(expression)) {\n        return expression;\n        }
else {\n        const /** @type {?} */ staticSymbol = expression;\n        const /** @type {?} */ declarationValue
= resolveReferenceValue(staticSymbol);\n        if (declarationValue) {\n        return
simplifyInContext(staticSymbol, declarationValue, depth + 1);\n        } else {\n        return staticSymbol;\n
        }\n        }\n        }\n        if (expression) {\n        if (expression['__symbolic']) {\n        let /** @type {?} */
staticSymbol: StaticSymbol;\n        switch (expression['__symbolic']) {\n        case 'binop':\n        let /**
@type {?} */ left = simplify(expression['left']);\n        if (shouldIgnore(left)) return left;\n        let /**
@type {?} */ right = simplify(expression['right']);\n        if (shouldIgnore(right)) return right;\n        switch
(expression['operator']) {\n        case '&&':\n        return left && right;\n        case '||':\n
return left || right;\n        case '|':\n        return left | right;\n        case '^':\n        return left
^ right;\n        case '&':\n        return left & right;\n        case '==':\n        return left ==
right;\n        case '!=':\n        return left != right;\n        case '===':\n        return left ===
right;\n        case '!==':\n        return left !== right;\n        case '<':\n        return left <
right;\n        case '>':\n        return left > right;\n        case '<=':\n        return left <=
right;\n        case '>=':\n        return left >= right;\n        case '<<':\n        return left <<
right;\n        case '>>':\n        return left >> right;\n        case '+':\n        return left +
right;\n        case '-':\n        return left - right;\n        case '*':\n        return left * right;\n
        case '/':\n        return left / right;\n        case '%':\n        return left % right;\n        }\n
return null;\n        case 'if':\n        let /** @type {?} */ condition =
simplify(expression['condition']);\n        return condition ? simplify(expression['thenExpression']) : \n
simplify(expression['elseExpression']);\n        case 'pre':\n        let /** @type {?} */ operand =
simplify(expression['operand']);\n        if (shouldIgnore(operand)) return operand;\n        switch
(expression['operator']) {\n        case '+':\n        return operand;\n        case '-':\n        return
-operand;\n        case '!':\n        return !operand;\n        case '~':\n        return ~operand;\n
        }\n        return null;\n        case 'index':\n        let /** @type {?} */ indexTarget =
simplify(expression['expression']);\n        let /** @type {?} */ index = simplify(expression['index']);\n
if (indexTarget && isPrimitive(index)) return indexTarget[index];\n        return null;\n        case 'select':\n
const /** @type {?} */ member = expression['member'];\n        let /** @type {?} */ selectContext =
context;\n        let /** @type {?} */ selectTarget = simplify(expression['expression']);\n        if
(selectTarget instanceof StaticSymbol) {\n        const /** @type {?} */ members =
selectTarget.members.concat(member);\n        selectContext = \n
self.getStaticSymbol(selectTarget.filePath, selectTarget.name, members);\n        const /** @type {?} */
declarationValue = resolveReferenceValue(selectContext);\n        if (declarationValue) {\n        return
simplifyInContext(selectContext, declarationValue, depth + 1);\n        } else {\n        return
selectContext;\n        }\n        }\n        }\n        if (selectTarget && isPrimitive(member))\n        return
simplifyInContext(selectContext, selectTarget[member], depth + 1);\n        return null;\n        case
'reference':\n        // Note: This only has to deal with variable references,\n        // as symbol references
have been converted into StaticSymbols already\n        // in the StaticSymbolResolver!\n        const /**
@type {?} */ name: string = expression['name'];\n        const /** @type {?} */ localValue =
scope.resolve(name);\n        if (localValue !== BindingScope.missing) {\n        return localValue;\n
        }\n        break;\n        case 'class':\n        return context;\n        case 'function':\n        return
context;\n        case 'new':\n        case 'call':\n        // Determine if the function is a built-in conversion\n
staticSymbol = simplifyInContext(context, expression['expression'], depth + 1);\n        if (staticSymbol
instanceof StaticSymbol) {\n        if (staticSymbol === self.opaqueToken) {\n        // if somebody calls
new OpaqueToken, don't create an OpaqueToken,\n        // but rather return the symbol to which the

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Object.keys(input).forEach((key) => {\n  const /** @type {?} */ value = transform(input[key], key);\n  if
(!shouldIgnore(value)) {\n    if (HIDDEN_KEY.test(key)) {\n      Object.defineProperty(result, key, {enumerable:
false, configurable: true, value: value});\n    } else {\n      result[key] = value;\n    }\n  });\n  return
result;\n}\n\n/**\n * @param {?} o\n * @return {?} */\n * ^\nfunction isPrimitive(o: any): boolean {\n  return o === null
|| (typeof o !== 'function' && typeof o !== 'object');\n}\n\ninterface BindingScopeBuilder {\n  define(name: string,
value: any): BindingScopeBuilder;\n  done(): BindingScope;\n}\n\n/**\n * @abstract\n * ^\nabstract class
BindingScope {\n\n  /**\n   * @abstract\n   * @param {?} name\n   * @return {?} */\n   * ^\n  resolve(name: string) {}
\n  public
  static missing = {};\n  public static empty: BindingScope = {resolve: name => BindingScope.missing};\n\n  /**\n   *
   * @return {?} */\n   * ^\n  public static build(): BindingScopeBuilder {\n    const /** @type {?} */ current = new
Map<string, any>();\n    return {\n      define: function(name, value) {\n        current.set(name, value);\n        return
this;\n      },\n      done: function() {\n        return current.size > 0 ? new PopulatedScope(current) :
BindingScope.empty;\n      }\n    };\n  }\n}\n\nfunction BindingScope_tsickle_Closure_declarations() {\n  /** @type
{?} */\n  ^\n  BindingScope.missing;\n  /** @type {?} */\n  ^\n  BindingScope.empty;\n}\n\n\nclass PopulatedScope extends
BindingScope {\n\n  /**\n   * @param {?} bindings\n   * ^\n  constructor(private bindings: Map<string, any>) { super();
}\n\n  /**\n   * @param {?} name\n   * @return {?} */\n   * ^\n  resolve(name: string): any {\n    return this.bindings.has(name)
? this.bindings.get(name) : BindingScope.missing;\n  }\n}\n\nfunction
PopulatedScope_tsickle_Closure_declarations() {\n  /** @type {?}
*\n  ^\n  PopulatedScope.prototype.bindings;\n}\n\n\n  /**\n   * @param {?} a\n   * @param {?} b\n   * @return {?} */\n
  ^\n  function sameSymbol(a: StaticSymbol, b: StaticSymbol): boolean {\n    return a === b;\n  }\n\n  /**\n   * @param {?}
value\n   * @return {?} */\n   * ^\n  function shouldIgnore(value: any): boolean {\n    return value && value.__symbolic ==
'ignore';\n  }\n\n  /**\n   * @param {?} message\n   * @param {?} fileName\n   * @param {?} line\n   * @param {?}
column\n   * @return {?} */\n   * ^\n  function positionalError(message: string, fileName: string, line: number, column:
number): Error {\n    const /** @type {?} */ result = new Error(message);\n    ( /** @type {?} */ ((result as
any))).fileName = fileName;\n    ( /** @type {?} */ ((result as any))).line = line;\n    ( /** @type {?} */ ((result as
any))).column = column;\n    return result;\n  }\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?:
any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/aot/static\_reflector.js.map

No license file was found, but licenses were detected in source scan.

```

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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-

tgz/package/src/aot/static\_reflection\_capabilities.js.map

No license file was found, but licenses were detected in source scan.

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code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
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Map;\n  Set: typeof Set;\n  Date: DateConstructor;\n  RegExp: RegExpConstructor;\n  JSON: typeof JSON;\n  Math:
any; // typeof Math;\n  assert(condition: any): void;\n  Reflect: any;\n  getAngularTestability: Function;\n
getAllAngularTestabilities: Function;\n  getAllAngularRootElements: Function;\n  frameworkStabilizers:
Array<Function>;\n  setTimeout: Function;\n  clearTimeout: Function;\n  setInterval: Function;\n  clearInterval:
Function;\n  encodeURI: Function;\n}\n\n// TODO(jteplitz602): Load WorkerGlobalScope from lib.webworker.d.ts
file #3492\n\ndeclare var WorkerGlobalScope: any /** TODO #9100 */;\n\n// CommonJS / Node have global context
exposed as \"global\" variable.\n// We don't want to include the whole node.d.ts this this compilation unit so we'll
just fake\n// the global \"global\" var for now.\ndeclare var global: any /** TODO #9100 */;\n\nlet /** @type {?} */
globalScope: BrowserNodeGlobal;\nif (typeof window === 'undefined') {\n  if (typeof WorkerGlobalScope !==
'undefined' && self instanceof WorkerGlobalScope) {\n    // TODO: Replace any with WorkerGlobalScope from
lib.webworker.d.ts #3492\n    globalScope = /** @type {?} */((( <any>self));\n  } else {\n    globalScope = /**
@type {?} */((( <any>global));\n  }\n} else {\n  globalScope = /** @type {?} */((( <any>window));\n}\n/**\n *
@param {?} fn\n * @return {?}\n */\n\nexport function scheduleMicroTask(fn: Function) {\n  Zone.current.scheduleMicroTask('scheduleMicrotask', fn);\n}\n\n// Need to declare a new variable for global here
since TypeScript\n// exports the original value of the symbol.\nconst /** @type {?} */ _global: BrowserNodeGlobal
= globalScope;\n\nexport { _global as global};\n/**\n * @param {?} type\n * @return {?}\n */\n\nexport function
getTypeNameForDebugging(type: any): string {\n  return type['name'] || typeof type;\n}\n\n// TODO: remove calls
to assert in production environment\n// Note: Can't just export this and import in in other files\n// as `assert` is a
reserved keyword in Dart\n_global.assert = function assert(condition) {\n  // TODO: to be fixed properly via #2830,
noop for now\n};\n/**\n * @param {?} obj\n * @return {?}\n */\n\nexport function isPresent(obj: any): boolean {\n
return obj != null;\n}\n\n/**\n * @param {?} obj\n * @return {?}\n */\n\nexport function isBlank(obj: any): boolean {\n
return obj == null;\n}\n\nconst /** @type {?} */ STRING_MAP_PROTO = Object.getPrototypeOf({});\n/**\n *
@param {?} obj\n * @return {?}\n */\n\nexport function isStrictStringMap(obj: any): boolean {\n  return typeof obj
=== 'object' && obj !== null && Object.getPrototypeOf(obj) === STRING_MAP_PROTO;\n}\n\n/**\n * @param
{?} obj\n * @return {?}\n */\n\nexport function isDate(obj: any): obj is Date {\n  return obj instanceof Date &&
!isNaN(obj.valueOf());\n}\n\n/**\n * @param {?} token\n * @return {?}\n */\n\nexport function stringify(token: any):
string {\n  if (typeof token === 'string') {\n    return token;\n  }\n\n  if (token == null) {\n    return \" + token;\n  }\n\n
if (token.OverridesName) {\n    return `_${token.OverridesName}`;\n  }\n\n  if (token.name) {\n    return
`_${token.name}`;\n  }\n\n  const /** @type {?} */ res = token.toString();\n  const /** @type {?} */ newLineIndex =

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res.indexOf('\n');\n return newLineIndex === -1 ? res : res.substring(0, newLineIndex);\n}\n\nexport class
NumberWrapper {\n/**\n * @param {?} text\n * @return {?}\n */\n *^static parseIntAutoRadix(text: string): number
{\n  const /** @type {?} */ result: number = parseInt(text);\n  if (isNaN(result)) {\n    throw new Error('Invalid
integer literal when parsing ' + text);\n  }\n  return result;\n }\n/**\n * @param {?} value\n * @return {?}\n
*/\n *^static isNumeric(value: any): boolean { return !isNaN(value - parseFloat(value)); }\n}\n/**\n * @param {?} a\n * @param {?} b\n * @return {?}\n */\n *^export function looseIdentical(a: any, b: any): boolean {\n return a === b ||
typeof a === 'number' && typeof b === 'number' && isNaN(a) && isNaN(b);\n }\n/**\n * @param {?} o\n *
@return {?}\n */\n *^export function isJsObject(o: any): boolean {\n return o !== null && (typeof o === 'function' ||
typeof o === 'object');\n }\n/**\n * @param {?} obj\n * @return {?}\n */\n *^export function print(obj: Error | Object)
{\n // tslint:disable-next-line:no-console\n console.log(obj);\n }\n/**\n * @param {?} obj\n * @return {?}\n
*/\n *^export function warn(obj: Error | Object) {\n console.warn(obj);\n }\n/**\n * @param {?} global\n * @param
{?} path\n * @param {?} value\n * @return {?}\n */\n *^export function setValueOnPath(global: any, path: string,
value: any) {\n const /** @type {?} */ parts = path.split('.');\n let /** @type {?} */ obj: any = global;\n while
(parts.length > 1) {\n  const /** @type {?} */ name = parts.shift();\n  if (obj.hasOwnProperty(name) &&
obj[name] != null) {\n    obj = obj[name];\n  } else {\n    obj = obj[name] = {};\n  }\n }\n if (obj ===
undefined || obj === null) {\n  obj = {};\n }\n obj[parts.shift()] = value;\n }\n\n// When Symbol.iterator doesn't
exist, retrieves the key used in es6-shim\ndeclare const Symbol: any;\nlet /** @type {?} */ _symbolIterator: any =
null;\n/**\n * @return {?}\n */\n *^export function getSymbolIterator(): string|symbol {\n if (!_symbolIterator) {\n
if ((/** @type {?} */((<any>globalScope))).Symbol && Symbol.iterator) {\n  _symbolIterator =
Symbol.iterator;\n } else {\n  // es6-shim specific logic\n  const /** @type {?} */ keys =
Object.getOwnPropertyNames(Map.prototype);\n  for (let /** @type {?} */ i = 0; i < keys.length; ++i) {\n
const /** @type {?} */ key = keys[i];\n    if (key !== 'entries' && key !== 'size' &&\n      (/** @type {?}
*/((Map as any))).prototype[key] === Map.prototype['entries']) {\n      _symbolIterator = key;\n    }\n  }\n }\n
}\n return _symbolIterator;\n }\n/**\n * @param {?} obj\n * @return {?}\n */\n *^export function isPrimitive(obj:
any): boolean {\n return !isJsObject(obj);\n }\n/**\n * @param {?} s\n * @return {?}\n */\n *^export function
escapeRegExp(s: string): string {\n return s.replace(/([.*+?^=!:${}()|\[\]\/\\\])/g, '\\\\$1');\n }\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/facade/lang.js.map

No license file was found, but licenses were detected in source scan.

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SAAS,CAAC,iBAAiB,CAAC;AAC/C,CAAC", "sourcesContent":["/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\nimport { CompileSummaryKind, CompileTypeSummary } from
'./compile_metadata';\nimport { Summary, SummaryResolver } from './summary_resolver';\nimport
{ StaticSymbol, StaticSymbolCache } from './static_symbol';\nimport { ResolvedStaticSymbol } from
'./static_symbol_resolver';\nimport { deserializeSummaries, summaryFileName } from
'./summary_serializer';\n\nconst /** @type {?} */ STRIP_SRC_FILE_SUFFIXES =
/(\\.ts\\.d\\.ts\\.jsx\\.tsx)/;\n\nexport interface AotSummaryResolverHost {\n /**\n * Loads an
NgModule/Directive/Pipe summary file\n */\n loadSummary(filePath: string): string /*!null*/;\n /**\n *
Returns whether a file is a source file or not.\n */\n isSourceFile(sourceFilePath: string): boolean;\n}\n\nexport
class AotSummaryResolver implements SummaryResolver<StaticSymbol> {\n private summaryCache = new
Map<StaticSymbol, Summary<StaticSymbol>>();\n private loadedFilePaths = new Set<string>();\n /**\n * @param
{?} host\n * @param {?} staticSymbolCache\n */\n constructor(private host: AotSummaryResolverHost,\n private
staticSymbolCache: StaticSymbolCache) {\n /**\n * @param {?} symbol\n * @return {?}\n */\n private
_assertNoMembers(symbol: StaticSymbol) {\n if (symbol.members.length) {\n throw new Error(\n
`Internal state: StaticSymbols in summaries can't have members! ${JSON.stringify(symbol)}`);\n }\n }\n /**\n *
@param {?} staticSymbol\n * @return {?}\n */\n resolveSummary(staticSymbol: StaticSymbol):
Summary<StaticSymbol> {\n this._assertNoMembers(staticSymbol);\n let /** @type {?} */ summary =
this.summaryCache.get(staticSymbol);\n if (!summary) {\n this._loadSummaryFile(staticSymbol.filePath);\n
summary = this.summaryCache.get(staticSymbol);\n }\n return summary;\n }\n /**\n * @param {?} filePath\n *
@return {?}\n */\n getSymbolsOf(filePath: string): StaticSymbol[] {\n this._loadSummaryFile(filePath);\n return
Array.from(this.summaryCache.keys()).filter((symbol) => symbol.filePath === filePath);\n }\n /**\n * @param {?}
filePath\n * @return {?}\n */\n private _loadSummaryFile(filePath: string) {\n if
(this.loadedFilePaths.has(filePath)) {\n return;\n }\n this.loadedFilePaths.add(filePath);\n if
(!this.host.isSourceFile(filePath)) {\n const /** @type {?} */ summaryFilePath = summaryFileName(filePath);\n
let /** @type {?} */ json: string;\n try {\n json = this.host.loadSummary(summaryFilePath);\n } catch (\n
/** @type {?} */ e) {\n console.error(`Error loading summary file ${summaryFilePath}`);\n throw e;\n
}\n if (json) {\n const /** @type {?} */ readSummaries = deserializeSummaries(this.staticSymbolCache,
json);\n readSummaries.forEach((summary) => { this.summaryCache.set(summary.symbol, summary); });\n
}\n }\n }\n }\n\nfunction AotSummaryResolver_tsickle_Closure_declarations() {\n /** @type {?}
*/\n AotSummaryResolver.prototype.summaryCache;\n /** @type {?}
*/\n AotSummaryResolver.prototype.loadedFilePaths;\n /** @type {?} */\n AotSummaryResolver.prototype.host;\n
/** @type {?} */\n AotSummaryResolver.prototype.staticSymbolCache;\n }\n\ninterface DecoratorInvocation {\n
type: Function;\n args?: any[];\n}\n"}

```



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 * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license
 that can be\n * found in the LICENSE file at https://angular.io/license\n *\nimport * as chars from './chars';\nimport
 {isPresent} from './facade/lang';\n\nexport class ParseLocation {\n/**\n * @param {?} file\n * @param {?} offset\n
 * @param {?} line\n * @param {?} col\n *\nconstructor(\npublic file: ParseSourceFile,\npublic offset:
number,\npublic line: number,\npublic col: number) {\n/**\n * @return {?}\n *\nintoString(): string {\n
return
isPresent(this.offset) ? `${this.file.url}@${this.line}:${this.col}` : this.file.url;\n }\n/**\n * @param {?} delta\n
 * @return {?}\n *\nmoveBy(delta: number): ParseLocation {\n
const /** @type {?} */ source = this.file.content;\n
const /** @type {?} */ len = source.length;\n
let /** @type {?} */ offset = this.offset;\n
let /** @type {?} */
line = this.line;\n
let /** @type {?} */ col = this.col;\n
while (offset > 0 && delta < 0) {\n
offset--;\n
delta++;\n
const /** @type {?} */ ch = source.charCodeAt(offset);\n
if (ch == chars.$LF) {\n
line--;\n
const /** @type {?} */ priorLine = source.substr(0, offset - 1).lastIndexOf(String.fromCharCode(chars.$LF));\n
col = priorLine > 0 ? offset - priorLine : offset;\n
} else {\n
col--;\n
}\n
}\n
while (offset < len &&
delta > 0) {\n
const /** @type {?} */ ch = source.charCodeAt(offset);\n
offset++;\n
delta--;\n
if (ch ==
chars.$LF) {\n
line++;\n
col = 0;\n
} else {\n
col++;\n
}\n
}\n
return new
ParseLocation(this.file, offset, line, col);\n }\n}\n\nfunction ParseLocation_tsickle_Closure_declarations() {\n/**
 * @type {?} *\nParseLocation.prototype.file;\n/** @type {?} *\nParseLocation.prototype.offset;\n/** @type {?}
 *\nParseLocation.prototype.line;\n/** @type {?} *\nParseLocation.prototype.col;\n}\n}\n\nexport class
ParseSourceFile {\n/**\n * @param {?} content\n * @param {?} url\n *\nconstructor(public content:
string,\npublic url: string) {\n}\n}\n\nfunction ParseSourceFile_tsickle_Closure_declarations() {\n/** @type {?}
 *\nParseSourceFile.prototype.content;\n/** @type {?} *\nParseSourceFile.prototype.url;\n}\n}\n\nexport class
ParseSourceSpan {\n/**\n * @param {?} start\n * @param {?} end\n * @param {?=} details\n
 *\nconstructor(\npublic start: ParseLocation,\npublic end: ParseLocation,\npublic details: string = null) {\n/**\n *\n
 * @return {?}\n *\nintoString(): string {\n
return this.start.file.content.substring(this.start.offset, this.end.offset);\n
}\n}\n\nfunction ParseSourceSpan_tsickle_Closure_declarations() {\n/** @type {?}
 *\nParseSourceSpan.prototype.start;\n/** @type {?} *\nParseSourceSpan.prototype.end;\n/** @type {?}
 *\nParseSourceSpan.prototype.details;\n}\n}\n\nexport type ParseErrorLevel = number;\nexport let ParseErrorLevel:
any = {};\nParseErrorLevel.WARNING = 0;\nParseErrorLevel.FATAL =
1;\nParseErrorLevel[ParseErrorLevel.WARNING] = \"WARNING\";\nParseErrorLevel[ParseErrorLevel.FATAL] =
\"FATAL\";\n}\n}\n\nexport class ParseError {\n/**\n * @param {?} span\n * @param {?} msg\n * @param {?=}
level\n *\nconstructor(\npublic span: ParseSourceSpan,\npublic msg: string,\npublic level: ParseErrorLevel =
ParseErrorLevel.FATAL) {\n/**\n *\n * @return {?}\n *\nintoString(): string {\n
const /** @type {?} */ source =
this.span.start.file.content;\n
let /** @type {?} */ ctxStart = this.span.start.offset;\n
let /** @type {?} */
contextStr = \";\n
let /** @type {?} */ details = \";\n
if (isPresent(ctxStart)) {\n
if (ctxStart > source.length - 1)
{\n
ctxStart = source.length - 1;\n
}\n
let /** @type {?} */ ctxEnd = ctxStart;\n
let /** @type {?} */
ctxLen = 0;\n
let /** @type {?} */ ctxLines = 0;\n
while (ctxLen < 100 && ctxStart > 0) {\n
ctxStart--
;\n
ctxLen++;\n
if (source[ctxStart] == '\\n') {\n
if (++ctxLines == 3) {\n
break;\n
}\n
}\n
}\n
}\n
ctxLen = 0;\n
ctxLines = 0;\n
while (ctxLen < 100 && ctxEnd < source.length - 1) {\n

```



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```
Object.keys(proto).forEach((protoProp) => {\n  const desc = Object.getOwnPropertyDescriptor(proto,\n  protoProp);\n  if (!protoProp.startsWith('_') && desc && 'get' in desc) {\n    props.push(protoProp);\n  }\n});\n}\nreturn props;\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/testing/metadata\_overrider.js.map

No license file was found, but licenses were detected in source scan.

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```

{stringify} from './facade/lang';\nimport {CompilerInjectable} from './injectable';\nimport
{CompileMetadataResolver} from './metadata_resolver';\nimport {NgModuleCompiler} from
 './ng_module_compiler';\nimport * as ir from './output/output_ast';\nimport {interpretStatements} from
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StyleCompiler} from './style_compiler';\nimport {TemplateParser} from
 './template_parser/template_parser';\nimport {SyncAsyncResult} from './util';\nimport
{ComponentFactoryDependency, DirectiveWrapperDependency, ViewClassDependency, ViewCompiler} from
 './view_compiler/view_compiler';\n/**\n * An internal module of the Angular compiler that begins with component
types,\n * extracts templates, and eventually produces a compiled version of the component\n * ready for linking
into an application.\n * *\n * from a trusted source. Attacker-controlled data introduced by a template could expose
your\n * application to XSS risks. For more detail, see the [Security Guide](http://g.co/ng/security).\n
*/\n@CompilerInjectable()\nexport class JitCompiler implements Compiler {\nprivate _compiledTemplateCache =
new Map<Type<any>, CompiledTemplate>();\nprivate _compiledHostTemplateCache = new Map<Type<any>,
CompiledTemplate>();\nprivate _compiledDirectiveWrapperCache = new Map<Type<any>,
Type<any>>();\nprivate _compiledNgModuleCache = new Map<Type<any>, NgModuleFactory<any>>();\nprivate
_animationCompiler = new AnimationCompiler();\n/**\n * @param {?} _injector\n * @param {?}
_metadataResolver\n * @param {?} _templateParser\n * @param {?} _styleCompiler\n * @param {?}
_viewCompiler\n * @param {?} _ngModuleCompiler\n * @param {?} _directiveWrapperCompiler\n * @param
{?} _compilerConfig\n * @param {?} _animationParser\n */\nconstructor(\nprivate _injector: Injector,\nprivate
_metadataResolver: CompileMetadataResolver,\nprivate _templateParser: TemplateParser,\nprivate _styleCompiler:
StyleCompiler,\nprivate _viewCompiler: ViewCompiler,\nprivate _ngModuleCompiler:
NgModuleCompiler,\nprivate _directiveWrapperCompiler: DirectiveWrapperCompiler,\nprivate _compilerConfig:
CompilerConfig,\nprivate _animationParser: AnimationParser) {\n/**\n * @return {?} \n */\nget injector(): Injector
{ return this._injector; }\n/**\n * @param {?} moduleType\n * @return {?} \n
*/\ncompileModuleSync<T>(moduleType: Type<T>): NgModuleFactory<T> {\n return
this._compileModuleAndComponents(moduleType, true).syncResult;\n }\n/**\n * @param {?} moduleType\n *
@return {?} \n */\ncompileModuleAsync<T>(moduleType: Type<T>): Promise<NgModuleFactory<T>> {\n
return this._compileModuleAndComponents(moduleType, false).asyncResult;\n }\n/**\n * @param {?}
moduleType\n * @return {?} \n */\ncompileModuleAndAllComponentsSync<T>(moduleType: Type<T>):
ModuleWithComponentFactories<T> {\n return this._compileModuleAndAllComponents(moduleType,
true).syncResult;\n }\n/**\n * @param {?} moduleType\n * @return {?} \n
*/\ncompileModuleAndAllComponentsAsync<T>(moduleType: Type<T>):\n
Promise<ModuleWithComponentFactories<T>> {\n return
this._compileModuleAndAllComponents(moduleType, false).asyncResult;\n }\n/**\n * @param {?} component\n
* @return {?} \n */\ngetNgContentSelectors(component: Type<any>): string[] {\n const /** @type {?} */ template
= this._compiledTemplateCache.get(component);\n if (!template) {\n throw new Error(`The component
${stringify(component)} is not yet compiled!`);\n }\n return template.compMeta.template.ngContentSelectors;\n
}\n/**\n * @param {?} moduleType\n * @param {?} isSync\n * @return {?} \n */\nprivate
_compileModuleAndComponents<T>(moduleType: Type<T>, isSync: boolean):\n
SyncAsyncResult<NgModuleFactory<T>> {\n const /** @type {?} */ loadingPromise =
this._loadModules(moduleType, isSync);\n const /** @type {?} */ createResult = () => {\n
this._compileComponents(moduleType, null);\n return this._compileModule(moduleType);\n }; \n if (isSync)
{\n return new SyncAsyncResult(createResult());\n } else {\n return new SyncAsyncResult(null,
loadingPromise.then(createResult));\n }\n }\n/**\n * @param {?} moduleType\n * @param {?} isSync\n *
@return {?} \n */\nprivate _compileModuleAndAllComponents<T>(moduleType: Type<T>, isSync: boolean):\n
SyncAsyncResult<ModuleWithComponentFactories<T>> {\n const /** @type {?} */ loadingPromise =
this._loadModules(moduleType, isSync);\n const /** @type {?} */ createResult = () => {\n const /** @type
{?} */ componentFactories: ComponentFactory<any>[] = [];\n this._compileComponents(moduleType,

```



```

localModuleMeta.entryComponents.forEach((entryComponentType) => {\n    const /** @type {?} */
moduleMeta = moduleByDirective.get(entryComponentType.reference);\n
templates.add(this._createCompiledHostTemplate(entryComponentType.reference, moduleMeta);\n    });\n});\n
templates.forEach((template) => this._compileTemplate(template));\n }\n/**\n * @param {?} type\n * @return
{?}\n */\n\nclearCacheFor(type: Type<any>) {\n    this._compiledNgModuleCache.delete(type);\n
this._metadataResolver.clearCacheFor(type);\n    this._compiledHostTemplateCache.delete(type);\n    const /**
@type {?} */ compiledTemplate = this._compiledTemplateCache.get(type);\n    if (compiledTemplate) {\n
this._compiledTemplateCache.delete(type);\n    }\n }\n/**\n * @return {?}\n */\n\nclearCache(): void {\n
this._metadataResolver.clearCache();\n    this._compiledTemplateCache.clear();\n
this._compiledHostTemplateCache.clear();\n    this._compiledNgModuleCache.clear();\n }\n/**\n * @param {?}
compType\n * @param {?} ngModule\n * @return {?}\n */\n\nprivate _createCompiledHostTemplate(compType:
Type<any>, ngModule: CompileNgModuleMetadata):\n    CompiledTemplate {\n    if (!ngModule) {\n        throw
new Error(\n            `Component ${stringify(compType)} is not part of any NgModule or the module has not been
imported into your module.`);\n    }\n    let /** @type {?} */ compiledTemplate =
this._compiledHostTemplateCache.get(compType);\n    if (!compiledTemplate) {\n        const /** @type {?} */
compMeta = this._metadataResolver.getDirectiveMetadata(compType);\n        assertComponent(compMeta);\n
const /** @type {?} */ HostClass = function HostClass() {};\n        (/** @type {?}
*/((<any>HostClass))).overridesName = `${identifierName(compMeta.type)}_Host`;\n        const /** @type {?}
*/ hostMeta = createHostComponentMeta(HostClass, compMeta);\n        compiledTemplate = new
CompiledTemplate(\n            true, compMeta.selector, compMeta.type, hostMeta, ngModule, [compMeta.type]);\n
this._compiledHostTemplateCache.set(compType, compiledTemplate);\n    }\n    return compiledTemplate;\n
}\n/**\n * @param {?} compMeta\n * @param {?} ngModule\n * @return {?}\n */\n\nprivate
_createCompiledTemplate(\n    compMeta: CompileDirectiveMetadata, ngModule: CompileNgModuleMetadata):
CompiledTemplate {\n    let /** @type {?} */ compiledTemplate =
this._compiledTemplateCache.get(compMeta.type.reference);\n    if (!compiledTemplate) {\n
assertComponent(compMeta);\n        compiledTemplate = new CompiledTemplate(\n            false, compMeta.selector,
compMeta.type, compMeta, ngModule,\n            ngModule.transitiveModule.directives);\n
this._compiledTemplateCache.set(compMeta.type.reference, compiledTemplate);\n    }\n    return
compiledTemplate;\n }\n/**\n * @param {?} compType\n * @param {?} isHost\n * @return {?}\n */\n\nprivate
_assertComponentKnown(compType: any, isHost: boolean): CompiledTemplate {\n    const /** @type {?} */
compiledTemplate = isHost ? this._compiledHostTemplateCache.get(compType) :\n
this._compiledTemplateCache.get(compType);\n    if (!compiledTemplate) {\n        throw new Error(\n            `Illegal
state: Compiled view for component ${stringify(compType)} (host: ${isHost}) does not exist!`);\n    }\n    return
compiledTemplate;\n }\n/**\n * @param {?} dirType\n * @return {?}\n */\n\nprivate
_assertDirectiveWrapper(dirType: any): Type<any> {\n    const /** @type {?} */ dirWrapper =
this._compiledDirectiveWrapperCache.get(dirType);\n    if (!dirWrapper) {\n        throw new Error(\n            `Illegal
state: Directive wrapper for ${stringify(dirType)} has not been compiled!`);\n    }\n    return dirWrapper;\n }\n/**\n
* @param {?} dirMeta\n * @param {?} moduleMeta\n * @return {?}\n */\n\nprivate _compileDirectiveWrapper(\n
dirMeta: CompileDirectiveMetadata, moduleMeta: CompileNgModuleMetadata): void {\n    const /** @type {?} */
compileResult = this._directiveWrapperCompiler.compile(dirMeta);\n    const /** @type {?} */ statements =
compileResult.statements;\n    let /** @type {?} */ directiveWrapperClass: any;\n    if (!this._compilerConfig.useJit)
{\n        directiveWrapperClass = interpretStatements(statements, compileResult.dirWrapperClassVar);\n    } else {\n
directiveWrapperClass = jitStatements(\n
`${identifierName(moduleMeta.type)}/${identifierName(dirMeta.type)}/wrapper.ngfactory.js`,\n        statements,
compileResult.dirWrapperClassVar);\n    }\n    this._compiledDirectiveWrapperCache.set(dirMeta.type.reference,
directiveWrapperClass);\n }\n/**\n * @param {?} template\n * @return {?}\n */\n\nprivate
_compileTemplate(template: CompiledTemplate) {\n    if (template.isCompiled) {\n        return;\n    }\n    const /**
@type {?} */ compMeta = template.compMeta;\n    const /** @type {?} */ externalStylesheetsByUrl = new

```



```

Map<string, CompiledStylesheet>();\n  const /** @type {?} */ stylesCompileResult =
this._styleCompiler.compileComponent(compMeta);\n  stylesCompileResult.externalStylesheets.forEach(\n      (r
=> { externalStylesheetsByModuleUrl.set(r.meta.moduleUrl, r); });\n  this._resolveStylesCompileResult(\n
stylesCompileResult.componentStylesheet, externalStylesheetsByModuleUrl);\n  const /** @type {?} */
parsedAnimations = this._animationParser.parseComponent(compMeta);\n  const /** @type {?} */ directives =\n
  template.directives.map(dir => this._metadataResolver.getDirectiveSummary(dir.reference));\n  const /** @type
 {?} */ pipes = template.ngModule.transitiveModule.pipes.map(\n      pipe =>
this._metadataResolver.getPipeSummary(pipe.reference));\n  const /** @type {?} */ parsedTemplate =
this._templateParser.parse(\n      compMeta, compMeta.template.template, directives, pipes,
template.ngModule.schemas,\n      identifierName(compMeta.type));\n  const /** @type {?} */
compiledAnimations =\n      this._animationCompiler.compile(identifierName(compMeta.type),
parsedAnimations);\n  const /** @type {?} */ compileResult = this._viewCompiler.compileComponent(\n
compMeta, parsedTemplate, ir.variable(stylesCompileResult.componentStylesheet.stylesVar),\n      pipes,
compiledAnimations);\n  compileResult.dependencies.forEach((dep) => {\n      let /** @type {?} */ depTemplate:
CompiledTemplate;\n      if (dep instanceof ViewClassDependency) {\n          const /** @type {?} */ vfd = /** @type
 {?} */ /(( <ViewClassDependency>dep));\n          depTemplate = this._assertComponentKnown(vfd.comp.reference,
false);\n          vfd.placeholder.reference = depTemplate.proxyViewClass;\n      } else if (dep instanceof
ComponentFactoryDependency) {\n          const /** @type {?} */ cfd = /** @type {?} */ /((
<ComponentFactoryDependency>dep));\n          depTemplate = this._assertComponentKnown(cfd.comp.reference,
true);\n          cfd.placeholder.reference = depTemplate.proxyComponentFactory;\n      } else if (dep instanceof
DirectiveWrapperDependency) {\n          const /** @type {?} */ dwd = /** @type {?} */ /((
<DirectiveWrapperDependency>dep));\n          dwd.placeholder.reference =
this._assertDirectiveWrapper(dwd.dir.reference);\n      }\n  });\n  const /** @type {?} */ statements =
stylesCompileResult.componentStylesheet.statements\n
      .concat(...compiledAnimations.map(ca =>
ca.statements))\n
      .concat(compileResult.statements);\n  let /** @type {?} */ viewClass: any;\n  if
(!this._compilerConfig.useJit) {\n      viewClass = interpretStatements(statements, compileResult.viewClassVar);\n
  } else {\n      viewClass = jitStatements(\n
`${identifierName(template.ngModule.type)}/${identifierName(template.compType)}/${template.isHost?'host':'co
mponent'}.ngfactory.js`,\n      statements, compileResult.viewClassVar);\n  }\n
  template.compiled(viewClass);\n  }\n/**\n * @param {?} result\n * @param {?}
externalStylesheetsByModuleUrl\n * @return {?} }\n * ^\nprivate _resolveStylesCompileResult(\n  result:
CompiledStylesheet, externalStylesheetsByModuleUrl: Map<string, CompiledStylesheet>) {\n
  result.dependencies.forEach((dep, i) => {\n      const /** @type {?} */ nestedCompileResult =
externalStylesheetsByModuleUrl.get(dep.moduleUrl);\n      const /** @type {?} */ nestedStylesArr =
this._resolveAndEvalStylesCompileResult(\n          nestedCompileResult, externalStylesheetsByModuleUrl);\n
      dep.valuePlaceholder.reference = nestedStylesArr;\n  });\n  }\n/**\n * @param {?} result\n * @param {?}
externalStylesheetsByModuleUrl\n * @return {?} }\n * ^\nprivate _resolveAndEvalStylesCompileResult(\n  result:
CompiledStylesheet,\n  externalStylesheetsByModuleUrl: Map<string, CompiledStylesheet>): string[] {\n
  this._resolveStylesCompileResult(result, externalStylesheetsByModuleUrl);\n  if (!this._compilerConfig.useJit) {\n
      return interpretStatements(result.statements, result.stylesVar);\n  } else {\n      return jitStatements(\n
`${result.meta.moduleUrl}.ngstyle.js`, result.statements, result.stylesVar);\n  }\n  }\n}\n\nfunction
JitCompiler_tsickle_Closure_declarations() {\n  /** @type {?}
*\n  ^\nJitCompiler.prototype._compiledTemplateCache;\n  /** @type {?}
*\n  ^\nJitCompiler.prototype._compiledHostTemplateCache;\n  /** @type {?}
*\n  ^\nJitCompiler.prototype._compiledDirectiveWrapperCache;\n  /** @type {?}
*\n  ^\nJitCompiler.prototype._compiledNgModuleCache;\n  /** @type {?}
*\n  ^\nJitCompiler.prototype._animationCompiler;\n  /** @type {?} *\n  ^\nJitCompiler.prototype._injector;\n  /** @type
 {?} *\n  ^\nJitCompiler.prototype._metadataResolver;\n  /** @type {?} *\n  ^\nJitCompiler.prototype._templateParser;\n

```

```

/** @type {?} */\nJitCompiler.prototype._styleCompiler;\n/** @type {?}
*\nJitCompiler.prototype._viewCompiler;\n/** @type {?} */\nJitCompiler.prototype._ngModuleCompiler;\n/**
@type {?} */\nJitCompiler.prototype._directiveWrapperCompiler;\n/** @type {?}
*\nJitCompiler.prototype._compilerConfig;\n/** @type {?}
*\nJitCompiler.prototype._animationParser;\n}\n\n\nclass CompiledTemplate {\nprivate _viewClass: Function =
null;\n proxyViewClass: Type<any>;\n proxyComponentFactory: ComponentFactory<any>;\n isCompiled =
false;\n/**\n * @param {?} isHost\n * @param {?} selector\n * @param {?} compType\n * @param {?}
compMeta\n * @param {?} ngModule\n * @param {?} directives\n */\nconstructor(\npublic isHost: boolean,
selector: string,\npublic compType: CompileIdentifierMetadata,\npublic compMeta:
CompileDirectiveMetadata,\npublic ngModule: CompileNgModuleMetadata,\npublic directives:
CompileIdentifierMetadata[]) {\n  const self = this;\n  this.proxyViewClass = <any>function() {\n    if
(!self._viewClass) {\n      throw new Error(\n        `Illegal state: CompiledTemplate for
${stringify(self.compType)} is not compiled yet!`);\n    }\n    return self._viewClass.apply(this, arguments);\n
};\n  this.proxyComponentFactory = isHost ?\n    new ComponentFactory<any>(selector, this.proxyViewClass,
compType.reference) :\n    null;\n  }\n/**\n * @param {?} viewClass\n * @return {?} */\n\ncompiled(viewClass:
Function) {\n  this._viewClass = viewClass;\n  this.proxyViewClass.prototype = viewClass.prototype;\n
this.isCompiled = true;\n  }\n}\n\nfunction CompiledTemplate_tsickle_Closure_declarations() {\n/** @type {?}
*\nCompiledTemplate.prototype._viewClass;\n/** @type {?}
*\nCompiledTemplate.prototype.proxyViewClass;\n/** @type {?}
*\nCompiledTemplate.prototype.proxyComponentFactory;\n/** @type {?}
*\nCompiledTemplate.prototype.isCompiled;\n/** @type {?} */\nCompiledTemplate.prototype.isHost;\n/**
@type {?} */\nCompiledTemplate.prototype.compType;\n/** @type {?}
*\nCompiledTemplate.prototype.compMeta;\n/** @type {?} */\nCompiledTemplate.prototype.ngModule;\n/**
@type {?} */\nCompiledTemplate.prototype.directives;\n}\n\n/**\n * @param {?} meta\n * @return {?} */\n\nfunction assertComponent(meta: CompileDirectiveMetadata) {\n  if (!meta.isComponent) {\n    throw new
Error(\n      `Could not compile '${identifierName(meta.type)}' because it is not a component.`);\n  }\n}\n\n/**\n *
Implements `Compiler` by delegating to the JitCompiler using a known module.\n */\n\nclass ModuleBoundCompiler
implements Compiler {\n/**\n * @param {?} _delegate\n * @param {?} _ngModule\n */\nconstructor(private
_delegate: JitCompiler,\nprivate _ngModule: Type<any>) {\n/**\n * @return {?} */\n\nget _injector(): Injector {\n
return this._delegate.injector; }\n/**\n * @param {?} moduleType\n * @return {?} */\n\ncompileModuleSync<T>(moduleType: Type<T>): NgModuleFactory<T> {\n  return
this._delegate.compileModuleSync(moduleType);\n  }\n/**\n * @param {?} moduleType\n * @return {?} */\n\ncompileModuleAsync<T>(moduleType: Type<T>): Promise<NgModuleFactory<T>> {\n  return
this._delegate.compileModuleAsync(moduleType);\n  }\n/**\n * @param {?} moduleType\n * @return {?} */\n\ncompileModuleAndAllComponentsSync<T>(moduleType: Type<T>): ModuleWithComponentFactories<T>
{\n  return this._delegate.compileModuleAndAllComponentsSync(moduleType);\n  }\n/**\n * @param {?}
moduleType\n * @return {?} */\n\ncompileModuleAndAllComponentsAsync<T>(moduleType: Type<T>):\n  Promise<ModuleWithComponentFactories<T>> {\n  return
this._delegate.compileModuleAndAllComponentsAsync(moduleType);\n  }\n/**\n * @param {?} component\n *
@return {?} */\n\ngetNgContentSelectors(component: Type<any>): string[] {\n  return
this._delegate.getNgContentSelectors(component);\n  }\n/**\n * Clears all caches\n * @return {?} */\n\nclearCache(): void {\n  this._delegate.clearCache(); }\n/**\n * Clears the cache for the given
component/ngModule.\n * @param {?} type\n * @return {?} */\n\nclearCacheFor(type: Type<any>) {\n
this._delegate.clearCacheFor(type); }\n}\n\nfunction ModuleBoundCompiler_tsickle_Closure_declarations() {\n/**
@type {?} */\nModuleBoundCompiler.prototype._delegate;\n/** @type {?}
*\nModuleBoundCompiler.prototype._ngModule;\n}\n\n\ninterface DecoratorInvocation {\n  type: Function;\n
args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/jit/compiler.js.map

No license file was found, but licenses were detected in source scan.

```
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```

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O,CAAC,CAAC;IAC9C,CAAC;IACH,kBAAC;AAAD,CAAC,AAjBD,IAiBC;AAED;IACC,gBAAGB;IACjB,WA  
AW,CAAC,SAAS,CAAC,IAAI,CAAC;IAC1B,gBAAGB;IACjB,WAAW,CAAC,SAAS,CAAC,KAAK,CAAC;IAC  
3B,gBAAGB;IACjB,WAAW,CAAC,SAAS,CAAC,UAAU,CAAC;AACjC,CAAC;AAED;;GAEG;AACH;IACA;;;;  
;;;;OaAG;IACH,oBACO,IAAY,EACZ,KAAgB,EACbB,MAAiC,EACjC,OAAwB,EACxB,UAA0B,EAC1B,UA  
A0B,EAC1B,SAAwB,EACxB,gBAAYB,EACzB,QAAuB,EACvB,cAAsB,EACtB,UAA2B,EAC3B,aAA8B;QAX9  
B,SAAI,GAJ,IAAI,CAAQ;QACZ,UAAK,GAAL,KAAK,CAAW;QACHB,WAAM,GAAN,MAAM,CAA2B;QAC  
jC,YAAO,GAAP,OAAO,CAAiB;QACxB,eAAU,GAAV,UAAU,CAAGB;QAC1B,eAAU,GAAV,UAAU,CAAGB;  
QAC1B,cAAS,GAAT,SAAS,CAAe;QACxB,qBAAGB,GAAhB,gBAAGB,CAAS;QACzB,aAAQ,GAAR,QAAQ,C  
AAe;QACvB,mBAAC,GAAd,cAAc,CAAQ;QACtB,eAAU,GAAV,UAAU,CAAiB;QAC3B,kBAaA,GAAb,aAAa,C  
AAiB;IAAG,CAAC;IACzC;;;;OAIG;IACH,0BAAK,GAAL,UAAM,OAA2B,EAAE,OAAy;QAC3C,MAAM,CAA  
C,OAAO,CAAC,YAAy,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IAC7C,CAAC;IACH,iBAAC;AAAD,CAAC,  
AApCD,IAoCC;AAED;IACC,gBAAGB;IACjB,UAAU,CAAC,SAAS,CAAC,IAAI,CAAC;IACzB,gBAAGB;IACjB  
,UAAU,CAAC,SAAS,CAAC,KAAK,CAAC;IAC1B,gBAAGB;IACjB,UAAU,CAAC,SAAS,CAAC,MAAM,CAA  
C;IAC3B,gBAAGB;IACjB,UAAU,CAAC,SAAS,CAAC,OAAO,CAAC;IAC5B,gBAAGB;IACjB,UAAU,CAAC,S  
AAS,CAAC,UAAU,CAAC;IAC/B,gBAAGB;IACjB,UAAU,CAAC,SAAS,CAAC,UAAU,CAAC;IAC/B,gBAAGB;  
IACjB,UAAU,CAAC,SAAS,CAAC,SAAS,CAAC;IAC9B,gBAAGB;IACjB,UAAU,CAAC,SAAS,CAAC,gBAAGB  
,CAAC;IACrC,gBAAGB;IACjB,UAAU,CAAC,SAAS,CAAC,QAAQ,CAAC;IAC7B,gBAAGB;IACjB,UAAU,CA  
AC,SAAS,CAAC,cAAc,CAAC;IACnC,gBAAGB;IACjB,UAAU,CAAC,SAAS,CAAC,UAAU,CAAC;IAC/B,gBA  
AgB;IACjB,UAAU,CAAC,SAAS,CAAC,aAAa,CAAC;AACnC,CAAC;AAED;;GAEG;AACH;IACA;;;;OAW  
G;IACH,6BACO,KAAgB,EACbB,OAAwB,EACxB,UAA0B,EAC1B,SAAwB,EACxB,UAA0B,EAC1B,SAAwB,E  
ACxB,gBAAYB,EACzB,QAAuB,EACvB,cAAsB,EACtB,UAA2B;QAT3B,UAAK,GAAL,KAAK,CAAW;QACHB  
,YAAO,GAAP,OAAO,CAAiB;QACxB,eAAU,GAAV,UAAU,CAAGB;QAC1B,cAAS,GAAT,SAAS,CAAe;QACx  
B,eAAU,GAAV,UAAU,CAAGB;QAC1B,cAAS,GAAT,SAAS,CAAe;QACxB,qBAAGB,GAAhB,gBAAGB,CAAS;  
QACzB,aAAQ,GAAR,QAAQ,CAAe;QACvB,mBAAC,GAAd,cAAc,CAAQ;QACtB,eAAU,GAAV,UAAU,CAAiB  
;IAAG,CAAC;IACtC;;;;OAIG;IACH,mCAAK,GAAL,UAAM,OAA2B,EAAE,OAAy;QAC3C,MAAM,CAAC,OA  
AO,CAAC,qBAAqB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACtD,CAAC;IACH,0BAAC;AAAD,CAAC,AAh  
CD,IAgCC;AAED;IACC,gBAAGB;IACjB,mBAAmB,CAAC,SAAS,CAAC,KAAK,CAAC;IACnC,gBAAGB;IACj  
B,mBAAmB,CAAC,SAAS,CAAC,OAAO,CAAC;IACrC,gBAAGB;IACjB,mBAAmB,CAAC,SAAS,CAAC,UAA  
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mB,CAAC,SAAS,CAAC,UAAU,CAAC;IACxC,gBAAGB;IACjB,mBAAmB,CAAC,SAAS,CAAC,SAAS,CAAC;I  
ACvC,gBAAGB;IACjB,mBAAmB,CAAC,SAAS,CAAC,gBAAGB,CAAC;IAC9C,gBAAGB;IACjB,mBAAmB,CA  
AC,SAAS,CAAC,QAAQ,CAAC;IACtC,gBAAGB;IACjB,mBAAmB,CAAC,SAAS,CAAC,cAAc,CAAC;IAC5C,g  
BAAGB;IACjB,mBAAmB,CAAC,SAAS,CAAC,UAAU,CAAC;AACzC,CAAC;AAED;;GAEG;AACH;IACA;;;;O  
AKG;IACH,mCACO,aAAqB,EACrB,YAAoB,EACpB,KAAU,EACV,UAA2B;QAH3B,kBAaA,GAAb,aAAa,CAA  
Q;QACrB,iBAAY,GAAY,YAAy,CAAQ;QACpB,UAAK,GAAL,KAAK,CAAK;QACV,eAAU,GAAV,UAAU,CA  
AiB;IAAG,CAAC;IACtC;;;;OAIG;IACH,yCAAK,GAAL,UAAM,OAA2B,EAAE,OAAy;QAC3C,MAAM,CAAC,  
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AApBD,IAoBC;AAED;IACC,gBAAgB;IACjB,yBAAYB,CAAC,SAAS,CAAC,aAAa,CAAC;IACjD,gBAAgB;IACjB,yBAAYB,CAAC,SAAS,CAAC,YAAY,CAAC;IACHd,gBAAgB;IACjB,yBAAYB,CAAC,SAAS,CAAC,KAAK,CAAC;IACzC,gBAAgB;IACjB,yBAAYB,CAAC,SAAS,CAAC,UAAU,CAAC;AAC/C,CAAC;AAED;;GAEG;AA CH;IACA;;;;;OAMG;IACH,sBACO,SAaKc,EAClC,MAAmC,EACnC,cAAyC,EACzC,UAA2B,EAC3B,UAA2B; QAJ3B,cAAS,GAAT,SAAS,CAAyB;QAClC,WAAM,GAAN,MAAM,CAA6B;QACnC,mBAAc,GAAd,cAAc,CA A2B;QACzC,eAAU,GAAV,UAAU,CAAiB;QAC3B,eAAU,GAAV,UAAU,CAAiB;IAAG,CAAC;IACtC;;;OAIG; IACH,4BAAK,GAAL,UAAM,OAA2B,EAAE,OAAy;QAC3C,MAAM,CAAC,OAAO,CAAC,cAAc,CAAC,IAAI, EAAE,OAAO,CAAC,CAAC;IAC/C,CAAC;IACH,mBAAC;AAAD,CAAC,AAtBD,IAsBC;AAED;IACC,gBAAgB ;IACjB,YAAY,CAAC,SAAS,CAAC,SAAS,CAAC;IACHc,gBAAgB;IACjB,YAAY,CAAC,SAAS,CAAC,MAAM, CAAC;IAC7B,gBAAgB;IACjB,YAAY,CAAC,SAAS,CAAC,cAAc,CAAC;IACrC,gBAAgB;IACjB,YAAY,CAAC ,SAAS,CAAC,UAAU,CAAC;IACjC,gBAAgB;IACjB,YAAY,CAAC,SAAS,CAAC,UAAU,CAAC;AAClC,CAAC; AAED;;GAEG;AACH;IACA;;;;;;OAQG;IACH,qBACO,KAA2B,EAC3B,aAAsB,EACtB,KAAc,EACd,SAAoC,E ACpC,YAA6B,EAC7B,cAAgC,EACHc,UAA2B;QAN3B,UAAK,GAAL,KAAK,CAASB;QAC3B,kBAaA,GAAb,a AAa,CAAS;QACtB,UAAK,GAAL,KAAK,CAAS;QACd,cAAS,GAAT,SAAS,CAA2B;QACpC,iBAAY,GAAZ,Y AAY,CAAiB;QAC7B,mBAAc,GAAd,cAAc,CAAKB;QACHc,eAAU,GAAV,UAAU,CAAiB;IAAG,CAAC;IACtC; ;;OAIG;IACH,2BAAK,GAAL,UAAM,OAA2B,EAAE,OAAy;QAC3C,4CAA4C;QAC5C,MAAM,CAAC,IAAI,C AAC;IACd,CAAC;IACH,kBAAC;AAAD,CAAC,AA3BD,IA2BC;AAED;IACC,gBAAgB;IACjB,WAAW,CAAC, SAAS,CAAC,KAAK,CAAC;IAC3B,gBAAgB;IACjB,WAAW,CAAC,SAAS,CAAC,aAAa,CAAC;IACnC,gBAAg B;IACjB,WAAW,CAAC,SAAS,CAAC,KAAK,CAAC;IAC3B,gBAAgB;IACjB,WAAW,CAAC,SAAS,CAAC,SA AS,CAAC;IAC/B,gBAAgB;IACjB,WAAW,CAAC,SAAS,CAAC,YAAY,CAAC;IAClC,gBAAgB;IACjB,WAAW, CAAC,SAAS,CAAC,cAAc,CAAC;IACpC,gBAAgB;IACjB,WAAW,CAAC,SAAS,CAAC,UAAU,CAAC;AACjC, CAAC;AAGD,OAAO,IAAI,eAAe,GAAQ,EAAE,CAAC;AACrC,eAAe,CAAC,aAAa,GAAG,CAAC,CAAC;AACl C,eAAe,CAAC,cAAc,GAAG,CAAC,CAAC;AACnC,eAAe,CAAC,SAAS,GAAG,CAAC,CAAC;AAC9B,eAAe,C AAC,SAAS,GAAG,CAAC,CAAC;AAC9B,eAAe,CAAC,OAAO,GAAG,CAAC,CAAC;AAC5B,eAAe,CAAC,eA Ae,CAAC,aAAa,CAAC,GAAG,eAAe,CAAC;AACjE,eAAe,CAAC,eAAe,CAAC,cAAc,CAAC,GAAG,gBAAgB,C AAC;AACnE,eAAe,CAAC,eAAe,CAAC,SAAS,CAAC,GAAG,WAAW,CAAC;AACzD,eAAe,CAAC,eAAe,CAA C,SAAS,CAAC,GAAG,WAAW,CAAC;AACzD,eAAe,CAAC,eAAe,CAAC,OAAO,CAAC,GAAG,SAAS,CAAC; AAErD;;GAEG;AACH;IACA;;;OAIG;IACH,sBACO,KAAa,EACb,cAAsB,EACtB,UAA2B;QAF3B,UAAK,GA A L,KAAK,CAAQ;QACb,mBAAc,GAAd,cAAc,CAAQ;QACtB,eAAU,GAAV,UAAU,CAAiB;IAAG,CAAC;IACtC; ;;OAIG;IACH,4BAAK,GAAL,UAAM,OAA2B,EAAE,OAAy;QAC3C,MAAM,CAAC,OAAO,CAAC,cAAc,CAA C,IAAI,EAAE,OAAO,CAAC,CAAC;IAC/C,CAAC;IACH,mBAAC;AAAD,CAAC,AAIBD,IAkBC;AAED;IACC, gBAAgB;IACjB,YAAY,CAAC,SAAS,CAAC,KAAK,CAAC;IAC5B,gBAAgB;IACjB,YAAY,CAAC,SAAS,CAA C,cAAc,CAAC;IACrC,gBAAgB;IACjB,YAAY,CAAC,SAAS,CAAC,UAAU,CAAC;AAClC,CAAC;AAGD,OAA O,IAAI,mBAAmB,GAAQ,EAAE,CAAC;AACzC,mBAAmB,CAAC,QAAQ,GAAG,CAAC,CAAC;AACjC,mBAAm B,CAAC,SAAS,GAAG,CAAC,CAAC;AAClC,mBAAmB,CAAC,KAAK,GAAG,CAAC,CAAC;AAC9B,mBAAm B,CAAC,KAAK,GAAG,CAAC,CAAC;AAC9B,mBAAmB,CAAC,SAAS,GAAG,CAAC,CAAC;AAClC,mBAAm B,CAAC,mBAAmB,CAAC,QAAQ,CAAC,GAAG,UAAU,CAAC;AAC/D,mBAAmB,CAAC,mBAAmB,CAAC, SAAS,CAAC,GAAG,WAAW,CAAC;AACjE,mBAAmB,CAAC,mBAAmB,CAAC,KAAK,CAAC,GAAG,OAAO, CAAC;AACzD,mBAAmB,CAAC,mBAAmB,CAAC,KAAK,CAAC,GAAG,OAAO,CAAC;AACzD,mBAAmB,C AAC,mBAAmB,CAAC,SAAS,CAAC,GAAG,WAAW,CAAC;AAyBjE;;;;;GAMG;AACH,iCACI,OAA2B,EAAE, IAAMB,EAAE,OAAmB;IAAnB,uBAAmB,GAAnB,cAAmB;IACvE,IAAM,gBAAgB,CAAC,MAAM,GAU,EAA E,CAAC;IAClC,IAAM,gBAAgB,CAAC,KAAK,GAAG,OAAO,CAAC,KAAK;QACxC,UAAc,GAAGB,IAAK,O AAA,OAAO,CAAC,KAAK,CAAC,GAAG,EAAE,OAAO,CAAC,IAAI,GAAG,CAAC,KAAK,CAAC,OAAO,EA AE,OAAO,CAAC,EAA1D,CAA0D;QACHf,UAAc,GAAGB,IAAK,OAAA,GAAG,CAAC,KAAK,CAAC,OAAO, EAAE,OAAO,CAAC,EAA3B,CAA2B,CAAC;IACtD,IAAI,CAAC,OAAO,CAAC,UAAA,GAAG;QACd,IAAM,g BAAGB,CAAC,SAAS,GAAG,KAAK,CAAC,GAAG,CAAC,CAAC;QAC9C,EAAE,CAAC,CAAC,SAAS,CAAC, CAAC,CAAC;YACd,MAAM,CAAC,IAAI,CAAC,SAAS,CAAC,CAAC;QACzB,CAAC;IACH,CAAC,CAAC,CA AC;IACH,MAAM,CAAC,MAAM,CAAC;AACbB,CAAC", "sourcesContent": ["/\*\*\n \* @license\n \* Copyright

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```

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found in the LICENSE file at https://angular.io/license
import {SecurityContext} from
'@angular/core';
import {CompileDirectiveSummary, CompileProviderMetadata, CompileTokenMetadata} from
'./compile_metadata';
import {AST} from './expression_parser/ast';
import {ParseSourceSpan} from
'./parse_util';
import {LifecycleHooks} from './private_import_core';
An Abstract Syntax Tree node
representing part of a parsed Angular template.
export interface TemplateAst {
  /**
   * The source span
   * from which this node was parsed.
   */
  sourceSpan: ParseSourceSpan;
  /**
   * Visit this node and possibly
   * transform it.
   */
  visit(visitor: TemplateAstVisitor, context: any): any;
  /**
   * A segment of text within the
   * template.
   */
  export interface TemplateAst {
    /**
     * The source span
     * from which this node was parsed.
     */
    sourceSpan: ParseSourceSpan;
    /**
     * Visit this node and possibly
     * transform it.
     */
    visit(visitor: TemplateAstVisitor, context: any): any;
    /**
     * A segment of text within the
     * template.
     */
    export class TextAst implements TemplateAst {
      /**
       * @param {?} value
       * @param {?}
       * ngContentIndex
       * @param {?} sourceSpan
       */
      constructor(\npublic value: string,\npublic ngContentIndex:
      number,\npublic sourceSpan: ParseSourceSpan) {}
      /**
       * @param {?} visitor
       * @param {?} context
       * @return {?}
       */
      visit(visitor: TemplateAstVisitor, context: any): any {
        return visitor.visitText(this, context);
      }
      /**
       * @type {?}
       */
      TextAst.prototype.value;
      /**
       * @type {?}
       */
      TextAst.prototype.ngContentIndex;
      /**
       * @type {?}
       */
      TextAst.prototype.sourceSpan;
    }
    /**
     * A bound expression within the text of a template.
     */
    export class BoundTextAst implements TemplateAst {
      /**
       * @param {?} value
       * @param {?} ngContentIndex
       * @param {?} sourceSpan
       */
      constructor(\npublic value: AST,\npublic ngContentIndex: number,\npublic sourceSpan: ParseSourceSpan)
      {}
      /**
       * @param {?} visitor
       * @param {?} context
       * @return {?}
       */
      visit(visitor: TemplateAstVisitor,
      context: any): any {
        return visitor.visitBoundText(this, context);
      }
      /**
       * @type {?}
       */
      BoundTextAst.prototype.value;
      /**
       * @type {?}
       */
      BoundTextAst.prototype.ngContentIndex;
      /**
       * @type {?}
       */
      BoundTextAst.prototype.sourceSpan;
    }
    /**
     * A plain attribute on an element.
     */
    export class AttrAst
    implements TemplateAst {
      /**
       * @param {?} name
       * @param {?} value
       * @param {?} sourceSpan
       */
      constructor(public name: string,\npublic value: string,\npublic sourceSpan: ParseSourceSpan) {}
      /**
       * @param {?} visitor
       * @param {?} context
       * @return {?}
       */
      visit(visitor: TemplateAstVisitor, context: any):
      any {
        return visitor.visitAttr(this, context);
      }
      /**
       * @type {?}
       */
      AttrAst.prototype.name;
      /**
       * @type {?}
       */
      AttrAst.prototype.value;
      /**
       * @type {?}
       */
      AttrAst.prototype.sourceSpan;
    }
    /**
     * A binding for an element property (e.g.
     * `[property]="expression"`) or an animation trigger (e.g.
     * `[@trigger]="stateExp"`)
     */
    export class
    BoundElementPropertyAst implements TemplateAst {
      /**
       * @param {?} name
       * @param {?} type
       * @param {?} securityContext
       * @param {?} needsRuntimeSecurityContext
       * @param {?} value
       * @param {?} unit
       * @param {?} sourceSpan
       */
      constructor(\npublic name: string,\npublic type:
      PropertyBindingType,\npublic securityContext: SecurityContext,\npublic needsRuntimeSecurityContext:
      boolean,\npublic value: AST,\npublic unit: string,\npublic sourceSpan: ParseSourceSpan) {}
      /**
       * @param {?} visitor
       * @param {?} context
       * @return {?}
       */
      visit(visitor: TemplateAstVisitor, context: any): any {
        return visitor.visitElementProperty(this, context);
      }
      /**
       * @return {?}
       */
      isAnimation(): boolean {
        return this.type === PropertyBindingType.Animation;
      }
      /**
       * @type {?}
       */
      BoundElementPropertyAst.prototype.name;
      /**
       * @type {?}
       */
      BoundElementPropertyAst.prototype.type;
      /**
       * @type {?}
       */
      BoundElementPropertyAst.prototype.securityContext;
      /**
       * @type {?}
       */
      BoundElementPropertyAst.prototype.needsRuntimeSecurityContext;
      /**
       * @type {?}
       */
      BoundElementPropertyAst.prototype.value;
      /**
       * @type {?}
       */
      BoundElementPropertyAst.prototype.unit;
      /**
       * @type {?}
       */
      BoundElementPropertyAst.prototype.sourceSpan;
    }
    /**
     * A binding for an element event
     * (e.g. `(event)="handler()"`) or an animation trigger event (e.g.
     * `[@trigger.phase]="callback($event)"`).
     */
    export class BoundEventAst implements TemplateAst {
      /**
       * @param {?} name
       * @param {?} target
       * @param {?} phase
       * @return {?}
       */
      static calcFullName(name: string, target: string, phase: string): string {
        if (target) {
          return `${target}:${name}`;
        } else if (phase) {
          return `@${name}.${phase}`;
        } else {
          return name;
        }
      }
      /**
       * @param {?} name
       * @param {?} target
       * @param {?} phase
       */
    }
  }

```

```

@param {?} handler\n * @param {?} sourceSpan\n *\nconstructor(\npublic name: string,\npublic target:
string,\npublic phase: string,\npublic handler: AST,\npublic sourceSpan: ParseSourceSpan) {\n/**\n * @param {?}
visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: TemplateAstVisitor, context: any): any {\n
return visitor.visitEvent(this, context);\n }\n/**\n * @return {?}\n *\nget fullName() { return
BoundEventAst.calcFullName(this.name, this.target, this.phase); }\n/**\n * @return {?}\n *\nget isAnimation():
boolean { return !!this.phase; }\n}\n\nfunction BoundEventAst_tsickle_Closure_declarations() {\n/** @type {?}
*\nBoundEventAst.prototype.name;\n/** @type {?} *\nBoundEventAst.prototype.target;\n/** @type {?}
*\nBoundEventAst.prototype.phase;\n/** @type {?} *\nBoundEventAst.prototype.handler;\n/** @type {?}
*\nBoundEventAst.prototype.sourceSpan;\n}\n\n/**\n * A reference declaration on an element (e.g. `let
someName="expression"`).\n *\nexport class ReferenceAst implements TemplateAst {\n/**\n * @param {?}
name\n * @param {?} value\n * @param {?} sourceSpan\n *\nconstructor(\npublic name: string,\npublic value:
CompileTokenMetadata,\npublic sourceSpan: ParseSourceSpan) {\n }\n/**\n * @param {?} visitor\n * @param
{?} context\n * @return {?}\n *\nvisit(visitor: TemplateAstVisitor, context: any): any {\n return
visitor.visitReference(this, context);\n }\n}\n\nfunction ReferenceAst_tsickle_Closure_declarations() {\n/** @type
{?} *\nReferenceAst.prototype.name;\n/** @type {?} *\nReferenceAst.prototype.value;\n/** @type {?}
*\nReferenceAst.prototype.sourceSpan;\n}\n\n/**\n * A variable declaration on a <template> (e.g. `var-
someName="someLocalName"`).\n *\nexport class VariableAst implements TemplateAst {\n/**\n * @param {?}
name\n * @param {?} value\n * @param {?} sourceSpan\n *\nconstructor(\npublic name: string,\npublic value:
string,\npublic sourceSpan: ParseSourceSpan) {\n }\n/**\n * @param {?} visitor\n * @param {?} context\n * @return
{?}\n *\nvisit(visitor: TemplateAstVisitor, context: any): any {\n return visitor.visitVariable(this, context);\n
}\n}\n\nfunction VariableAst_tsickle_Closure_declarations() {\n/** @type {?} *\nVariableAst.prototype.name;\n
/** @type {?} *\nVariableAst.prototype.value;\n/** @type {?}
*\nVariableAst.prototype.sourceSpan;\n}\n\n/**\n * An element declaration in a template.\n *\nexport class
ElementAst implements TemplateAst {\n/**\n * @param {?} name\n * @param {?} attrs\n * @param {?} inputs\n
* @param {?} outputs\n * @param {?} references\n * @param {?} directives\n * @param {?} providers\n *
@param {?} hasViewContainer\n * @param {?} children\n * @param {?} ngContentIndex\n * @param {?}
sourceSpan\n * @param {?} endSourceSpan\n *\nconstructor(\npublic name: string,\npublic attrs:
AttrAst[],\npublic inputs: BoundElementPropertyAst[],\npublic outputs: BoundEventAst[],\npublic references:
ReferenceAst[],\npublic directives: DirectiveAst[],\npublic providers: ProviderAst[],\npublic hasViewContainer:
boolean,\npublic children: TemplateAst[],\npublic ngContentIndex: number,\npublic sourceSpan:
ParseSourceSpan,\npublic endSourceSpan: ParseSourceSpan) {\n }\n/**\n * @param {?} visitor\n * @param {?}
context\n * @return {?}\n *\nvisit(visitor: TemplateAstVisitor, context: any): any {\n return
visitor.visitElement(this, context);\n }\n}\n\nfunction ElementAst_tsickle_Closure_declarations() {\n/** @type
{?} *\nElementAst.prototype.name;\n/** @type {?} *\nElementAst.prototype.attrs;\n/** @type {?}
*\nElementAst.prototype.inputs;\n/** @type {?} *\nElementAst.prototype.outputs;\n/** @type {?}
*\nElementAst.prototype.references;\n/** @type {?} *\nElementAst.prototype.directives;\n/** @type {?}
*\nElementAst.prototype.providers;\n/** @type {?} *\nElementAst.prototype.hasViewContainer;\n/** @type
{?} *\nElementAst.prototype.children;\n/** @type {?} *\nElementAst.prototype.ngContentIndex;\n/** @type
{?} *\nElementAst.prototype.sourceSpan;\n/** @type {?} *\nElementAst.prototype.endSourceSpan;\n}\n\n/**\n * A
`<template>` element included in an Angular template.\n *\nexport class EmbeddedTemplateAst implements
TemplateAst {\n/**\n * @param {?} attrs\n * @param {?} outputs\n * @param {?} references\n * @param {?}
variables\n * @param {?} directives\n * @param {?} providers\n * @param {?} hasViewContainer\n * @param
{?} children\n * @param {?} ngContentIndex\n * @param {?} sourceSpan\n *\nconstructor(\npublic attrs:
AttrAst[],\npublic outputs: BoundEventAst[],\npublic references: ReferenceAst[],\npublic variables:
VariableAst[],\npublic directives: DirectiveAst[],\npublic providers: ProviderAst[],\npublic hasViewContainer:
boolean,\npublic children: TemplateAst[],\npublic ngContentIndex: number,\npublic sourceSpan: ParseSourceSpan)
{\n }\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n *\nvisit(visitor: TemplateAstVisitor,
context: any): any {\n return visitor.visitEmbeddedTemplate(this, context);\n }\n}\n\nfunction

```

```

EmbeddedTemplateAst_tsickle_Closure_declarations() {\n/** @type {?}
*\nEmbeddedTemplateAst.prototype.attrs;\n/** @type {?} *\nEmbeddedTemplateAst.prototype.outputs;\n/**
@type {?} *\nEmbeddedTemplateAst.prototype.references;\n/** @type {?}
*\nEmbeddedTemplateAst.prototype.variables;\n/** @type {?} *\nEmbeddedTemplateAst.prototype.directives;\n
/** @type {?} *\nEmbeddedTemplateAst.prototype.providers;\n/** @type {?}
*\nEmbeddedTemplateAst.prototype.hasViewContainer;\n/** @type {?}
*\nEmbeddedTemplateAst.prototype.children;\n/** @type {?}
*\nEmbeddedTemplateAst.prototype.ngContentIndex;\n/** @type {?}
*\nEmbeddedTemplateAst.prototype.sourceSpan;\n}\n\n/**\n * A directive property with a bound value (e.g.
`*ngIf="condition")\n *\nexport class BoundDirectivePropertyAst implements TemplateAst {\n/**\n * @param
{?} directiveName\n * @param {?} templateName\n * @param {?} value\n * @param {?} sourceSpan\n
*\nconstructor(\npublic directiveName: string,\npublic templateName: string,\npublic value: AST,\npublic
sourceSpan: ParseSourceSpan) {\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}}\n
*\nvisit(visitor: TemplateAstVisitor, context: any): any {\n  return visitor.visitDirectiveProperty(this, context);\n
}\n}\n\nfunction BoundDirectivePropertyAst_tsickle_Closure_declarations() {\n/** @type {?}
*\nBoundDirectivePropertyAst.prototype.directiveName;\n/** @type {?}
*\nBoundDirectivePropertyAst.prototype.templateName;\n/** @type {?}
*\nBoundDirectivePropertyAst.prototype.value;\n/** @type {?}
*\nBoundDirectivePropertyAst.prototype.sourceSpan;\n}\n\n/**\n * A directive declared on an element.\n
*\nexport class DirectiveAst implements TemplateAst {\n/**\n * @param {?} directive\n * @param {?} inputs\n *
@param {?} hostProperties\n * @param {?} hostEvents\n * @param {?} sourceSpan\n *\nconstructor(\npublic
directive: CompileDirectiveSummary,\npublic inputs: BoundDirectivePropertyAst[],\npublic hostProperties:
BoundElementPropertyAst[],\npublic hostEvents: BoundEventAst[],\npublic sourceSpan: ParseSourceSpan)
{\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}}\n *\nvisit(visitor: TemplateAstVisitor,
context: any): any {\n  return visitor.visitDirective(this, context);\n }\n}\n\nfunction
DirectiveAst_tsickle_Closure_declarations() {\n/** @type {?} *\nDirectiveAst.prototype.directive;\n/** @type
{?} *\nDirectiveAst.prototype.inputs;\n/** @type {?} *\nDirectiveAst.prototype.hostProperties;\n/** @type {?}
*\nDirectiveAst.prototype.hostEvents;\n/** @type {?} *\nDirectiveAst.prototype.sourceSpan;\n}\n\n/**\n * A
provider declared on an element\n *\nexport class ProviderAst implements TemplateAst {\n/**\n * @param {?}
token\n * @param {?} multiProvider\n * @param {?} eager\n * @param {?} providers\n * @param {?}
providerType\n * @param {?} lifecycleHooks\n * @param {?} sourceSpan\n *\nconstructor(\npublic token:
CompileTokenMetadata,\npublic multiProvider: boolean,\npublic eager: boolean,\npublic providers:
CompileProviderMetadata[],\npublic providerType: ProviderAstType,\npublic lifecycleHooks:
LifecycleHooks[],\npublic sourceSpan: ParseSourceSpan) {\n/**\n * @param {?} visitor\n * @param {?}
context\n * @return {?}}\n *\nvisit(visitor: TemplateAstVisitor, context: any): any {\n  // No visit method in the
visitor for now...\n  return null;\n }\n}\n\nfunction ProviderAst_tsickle_Closure_declarations() {\n/** @type {?}
*\nProviderAst.prototype.token;\n/** @type {?} *\nProviderAst.prototype.multiProvider;\n/** @type {?}
*\nProviderAst.prototype.eager;\n/** @type {?} *\nProviderAst.prototype.providers;\n/** @type {?}
*\nProviderAst.prototype.providerType;\n/** @type {?} *\nProviderAst.prototype.lifecycleHooks;\n/** @type
{?} *\nProviderAst.prototype.sourceSpan;\n}\n\nexport type ProviderAstType = number;\nexport let
ProviderAstType: any = {};\nProviderAstType.PublicService = 0;\nProviderAstType.PrivateService =
1;\nProviderAstType.Component = 2;\nProviderAstType.Directive = 3;\nProviderAstType.Builtin =
4;\nProviderAstType[ProviderAstType.PublicService] =
"PublicService";\nProviderAstType[ProviderAstType.PrivateService] =
"PrivateService";\nProviderAstType[ProviderAstType.Component] =
"Component";\nProviderAstType[ProviderAstType.Directive] =
"Directive";\nProviderAstType[ProviderAstType.Builtin] = "Builtin";\n\n/**\n * Position where content is to be
projected (instance of `` in a template).\n *\nexport class NgContentAst implements TemplateAst

```



```

{\n/**\n * @param {?} index\n * @param {?} ngContentIndex\n * @param {?} sourceSpan\n
*/\nconstructor(\npublic index: number,\npublic ngContentIndex: number,\npublic sourceSpan: ParseSourceSpan)
{\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\nvisit(visitor: TemplateAstVisitor,
context: any): any {\n  return visitor.visitNgContent(this, context);\n }\n}\n\nfunction
NgContentAst_tsickle_Closure_declarations() {\n /** @type {?} */\n NgContentAst.prototype.index;\n /** @type
{?} */\n NgContentAst.prototype.ngContentIndex;\n /** @type {?}
*/\n NgContentAst.prototype.sourceSpan;\n }\n\nexport type PropertyBindingType = number;\nexport let
PropertyBindingType: any = {};\nPropertyBindingType.Property = 0;\nPropertyBindingType.Attribute =
1;\nPropertyBindingType.Class = 2;\nPropertyBindingType.Style = 3;\nPropertyBindingType.Animation =
4;\nPropertyBindingType[PropertyBindingType.Property] =
\"Property\";\nPropertyBindingType[PropertyBindingType.Attribute] =
\"Attribute\";\nPropertyBindingType[PropertyBindingType.Class] =
\"Class\";\nPropertyBindingType[PropertyBindingType.Style] =
\"Style\";\nPropertyBindingType[PropertyBindingType.Animation] = \"Animation\";\n\n\n/**\n * A visitor for
{@link TemplateAst} trees that will process each node.\n */\nexport interface TemplateAstVisitor {\n // Returning
a truthy value from `visit()` will prevent `templateVisitAll()` from the call to\n // the typed method and result
returned will become the result included in `visitAll()`\n // result array.\n visit?(ast: TemplateAst, context: any):
any;\n\n visitNgContent(ast: NgContentAst, context: any): any;\n visitEmbeddedTemplate(ast:
EmbeddedTemplateAst, context: any): any;\n visitElement(ast: ElementAst, context: any): any;\n
visitReference(ast: ReferenceAst, context: any): any;\n visitVariable(ast: VariableAst, context: any): any;\n
visitEvent(ast: BoundEventAst, context: any): any;\n visitElementProperty(ast: BoundElementPropertyAst, context:
any): any;\n visitAttr(ast: AttrAst, context: any): any;\n visitBoundText(ast: BoundTextAst, context: any): any;\n
visitText(ast: TextAst, context: any): any;\n visitDirective(ast: DirectiveAst, context: any): any;\n
visitDirectiveProperty(ast: BoundDirectivePropertyAst, context: any): any;\n}\n\n/**\n * Visit every node in a list of
{@link TemplateAst}s with the given {@link TemplateAstVisitor}.\n */\n * @param {?} visitor\n * @param {?} asts\n
* @param {?=} context\n * @return {?}\n */\nexport function templateVisitAll(\n  visitor: TemplateAstVisitor,
asts: TemplateAst[], context: any = null): any[] {\n  const /** @type {?} */ result: any[] = [];\n  const /** @type {?}
*/ visit = visitor.visit ?\n    (ast: TemplateAst) => visitor.visit(ast, context) || ast.visit(visitor, context) :\n    (ast:
TemplateAst) => ast.visit(visitor, context);\n  asts.forEach(ast => {\n    const /** @type {?} */ astResult =
visit(ast);\n    if (astResult) {\n      result.push(astResult);\n    }\n  });\n  return result;\n}\n\ninterface
DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/template_parser/template_ast.js.map

```

No license file was found, but licenses were detected in source scan.

```

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nerated_file.ts"],"names":[],"mappings":"AACA;;;;;GAMG;AACH;IACA;;;OAIG;IACH,uBAAMB,UAAkB,EAC
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ACjB,aAAa,CAAC,SAAS,CAAC,UAAU,CAAC;IACIC,gBAAGB;IACjB,aAAa,CAAC,SAAS,CAAC,UAAU,CA
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n * @license undefined\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nexport class GeneratedFile {\n /**\n * @param {?} srcFileUrl\n * @param {?} genFileUrl\n * @param {?}
source\n */\nconstructor(public srcFileUrl: string,\npublic genFileUrl: string,\npublic source: string)
{\n}\n}\n\nfunction GeneratedFile_tsickle_Closure_declarations() {\n /** @type {?}

```



\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/value\_util.js.map

No license file was found, but licenses were detected in source scan.

/\*\*

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\* License: MIT

\*/

/\*\*

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\*

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\*/

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/bundles/compiler-testing.umd.js

No license file was found, but licenses were detected in source scan.

```
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```

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KAAK,GAAG,GAAG,CAAC,GAAG,CAAC,cAAc,CAAC,QAAQ,CAAC,CAAC,CAAC;QAC/D,EAAE,CAAC,C  
AAC,CAAC,KAAK,CAAC,CAAC,CAAC;YACX,KAAK,GAAG,EAAE,CAAC;YACX,GAAG,CAAC,GAAG,CA  
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KAAK,CAAC,CAAC;IACpB,CAAC,CAAC,CAAC;AACL,CAAC", "sourcesContent": ["/\*\*\n \*  
 \* @license\n \*  
 \* Copyright Google Inc. All Rights Reserved.\n \* Use of this source code is governed by an MIT-style license that  
 \* can be found in the LICENSE file at https://angular.io/license\n \*/\n\nimport { CompileQueryMetadata,  
 tokenReference } from './compile\_metadata';\nimport { ListWrapper } from './facade/collection';\nimport { isPresent }  
 from './facade/lang';\nimport { Identifiers, createIdentifier } from './identifiers';\nimport \* as o from

```

'./output/output_ast';\n\nimport {CompileElement} from './compile_element';\nimport {CompileMethod} from
'./compile_method';\nimport {CompileView} from './compile_view';\nimport {GetPropertyInView} from
'./util';\n\nclass ViewQueryValues {\n/**\n * @param {?} view\n * @param {?} values\n */\nconstructor(public
view: CompileView,\npublic values: Array<o.Expression|ViewQueryValues>) {}\n\n\nfunction
ViewQueryValues_tsickle_Closure_declarations() {\n/** @type {?} */\nViewQueryValues.prototype.view;\n/**
@type {?} */\nViewQueryValues.prototype.values;\n}\n\n\nexport class CompileQuery {\nprivate _values:
ViewQueryValues;\n/**\n * @param {?} meta\n * @param {?} queryList\n * @param {?}
ownerDirectiveExpression\n * @param {?} view\n */\nconstructor(\npublic meta: CompileQueryMetadata,\npublic
queryList: o.Expression,\npublic ownerDirectiveExpression: o.Expression,\npublic view: CompileView) {\n
this._values = new ViewQueryValues(view, []);\n }\n/**\n * @param {?} value\n * @param {?} view\n * @return
{?}\n */\naddValue(value: o.Expression, view: CompileView) {\n let /** @type {?} */ currentView = view;\n
const /** @type {?} */ elPath: CompileElement[] = [];\n while (isPresent(currentView) && currentView !==
this.view) {\n const /** @type {?} */ parentEl = currentView.declarationElement;\n
elPath.unshift(parentEl);\n currentView = parentEl.view;\n }\n const /** @type {?} */
queryListForDirtyExpr = getPropertyInView(this.queryList, view, this.view);\n\n let /** @type {?} */ viewValues
= this._values;\n elPath.forEach((el) => {\n const /** @type {?} */ last =\n viewValues.values.length > 0
? viewValues.values[viewValues.values.length - 1] : null;\n if (last instanceof ViewQueryValues && last.view
=== el.embeddedView) {\n viewValues = last;\n } else {\n const /** @type {?} */ newViewValues =
new ViewQueryValues(el.embeddedView, []);\n viewValues.values.push(newViewValues);\n viewValues
= newViewValues;\n }\n });\n viewValues.values.push(value);\n\n if (elPath.length > 0) {\n
view.dirtyParentQueriesMethod.addStmnt(\n queryListForDirtyExpr.callMethod('setDirty', []).toStmnt());\n }\n
})\n/**\n * @return {?} */\nprivate _isStatic(): boolean {\n return !this._values.values.some(value => value
instanceof ViewQueryValues);\n }\n/**\n * @param {?} targetStaticMethod\n * @param {?}
targetDynamicMethod\n * @return {?} */\nprivate _afterChildren(targetStaticMethod: CompileMethod,
targetDynamicMethod: CompileMethod) {\n const /** @type {?} */ values = createQueryValues(this._values);\n
const /** @type {?} */ updateStmnts = [this.queryList.callMethod('reset', [o.literalArr(values)].toStmnt());\n if
(isPresent(this.ownerDirectiveExpression)) {\n const /** @type {?} */ valueExpr = this.meta.first ?
this.queryList.prop('first') : this.queryList;\n updateStmnts.push(\n
this.ownerDirectiveExpression.prop(this.meta.propertyName).set(valueExpr).toStmnt());\n }\n if (!this.meta.first)
{\n updateStmnts.push(this.queryList.callMethod('notifyOnChanges', []).toStmnt());\n }\n if (this.meta.first &&
this._isStatic()) {\n // for queries that don't change and the user asked for a single element,\n // set it
immediately. That is e.g. needed for querying for ViewContainerRefs, ...\n // we don't do this for QueryLists for
now as this would break the timing when\n // we call QueryList listeners...\n
targetStaticMethod.addStmnts(updateStmnts);\n } else {\n targetDynamicMethod.addStmnt(new
o.IfStmnt(this.queryList.prop('dirty'), updateStmnts));\n }\n }\n\n\nfunction
CompileQuery_tsickle_Closure_declarations() {\n/** @type {?} */\nCompileQuery.prototype._values;\n/**
@type {?} */\nCompileQuery.prototype.meta;\n/** @type {?} */\nCompileQuery.prototype.queryList;\n/**
@type {?} */\nCompileQuery.prototype.ownerDirectiveExpression;\n/** @type {?}
*/\nCompileQuery.prototype.view;\n}\n\n\n/**\n * @param {?} viewValues\n * @return {?} */\nfunction
createQueryValues(viewValues: ViewQueryValues): o.Expression[] {\n return
ListWrapper.flatten(viewValues.values.map((entry) => {\n if (entry instanceof ViewQueryValues) {\n return
mapNestedViews(\n entry.view.declarationElement.viewContainer, entry.view, createQueryValues(entry));\n
} else {\n return /** @type {?} */ (/(<o.Expression>entry));\n }\n }));\n }\n\n\n/**\n * @param {?}
viewContainer\n * @param {?} view\n * @param {?} expressions\n * @return {?} */\nfunction
mapNestedViews(\n viewContainer: o.Expression, view: CompileView, expressions: o.Expression[]):
o.Expression {\n const /** @type {?} */ adjustedExpressions: o.Expression[] = expressions.map(\n (expr) =>
o.replaceVarInExpression(o.THIS_EXPR.name, o.variable('nestedView'), expr));\n return
viewContainer.callMethod('mapNestedViews', [\n o.variable(view.className),\n o.fn(\n [new

```

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o.FnParam('nestedView', view.classType)],\n    [new o.ReturnStatement(o.literalArr(adjustedExpressions))],
o.DYNAMIC_TYPE)\n ]);\n\n/**\n * @param {?} query\n * @param {?} directiveInstance\n * @param {?}
propertyName\n * @param {?} compileView\n * @return {?}\n */\nexport function createQueryList(\n  query:
CompileQueryMetadata, directiveInstance: o.Expression, propertyName: string,\n  compileView: CompileView):
o.Expression {\n  compileView.fields.push(new o.ClassField(\n    propertyName,
o.importType(createIdentifier(Identifiers.QueryList), [o.DYNAMIC_TYPE]));\n  const /** @type {?} */ expr =
o.THIS_EXPR.prop(propertyName);\n  compileView.createMethod.addStmt(\n
o.THIS_EXPR.prop(propertyName)\n    .set(o.importExpr(createIdentifier(Identifiers.QueryList),
[o.DYNAMIC_TYPE]).instantiate([\n    ]))\n    .toStmt());\n  return expr;\n}\n\n/**\n * @param {?} map\n *
@param {?} query\n * @return {?}\n */\nexport function addQueryToTokenMap(map: Map<any,
CompileQuery[]>, query: CompileQuery) {\n  query.meta.selectors.forEach((selector) => {\n    let /** @type {?} */
entry = map.get(tokenReference(selector));\n    if (!entry) {\n      entry = [];\n      map.set(tokenReference(selector),
entry);\n    }\n    entry.push(query);\n  });\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?:
any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/compile_query.js.map

```

No license file was found, but licenses were detected in source scan.

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AAE,CAAC;IAAD,kBAAC;AAAD,CAAC,AAA7C,CAAiC,SAAS,GAAG", "sourcesContent":["/**\n *
 * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license
 that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport {BaseError} from
 './facade/errors';\nimport {isPrimitive, isStrictStringMap} from './facade/lang';\nexport const /** @type {?} */
MODULE_SUFFIX = "";\n\nconst /** @type {?} */ CAMEL_CASE_REGEXP = /([A-Z])/g;\nconst /** @type {?}
 */ DASH_CASE_REGEXP = /-+([a-z0-9])/g;\n\n/**\n * @param {?} input\n * @return {?} \n *\nexport function
camelCaseToDashCase(input: string): string {\n  return input.replace(CAMEL_CASE_REGEXP, (...m: any[]) => '-'
 + m[1].toLowerCase());\n}\n\n/**\n * @param {?} input\n * @return {?} \n *\nexport function
dashCaseToCamelCase(input: string): string {\n  return input.replace(DASH_CASE_REGEXP, (...m: any[]) =>
m[1].toUpperCase());\n}\n\n/**\n * @param {?} input\n * @param {?} defaultValues\n * @return {?} \n *\nexport
function splitAtColon(input: string, defaultValues: string[]): string[] {\n  return _splitAt(input, ':',
defaultValues);\n}\n\n/**\n * @param {?} input\n * @param {?} defaultValues\n * @return {?} \n *\nexport function
splitAtPeriod(input: string, defaultValues: string[]): string[] {\n  return _splitAt(input, '.', defaultValues);\n}\n\n/**\n *
 * @param {?} input\n * @param {?} character\n * @param {?} defaultValues\n * @return {?} \n *\nfunction
_splitAt(input: string, character: string, defaultValues: string[]): string[] {\n  const /** @type {?} */ characterIndex
= input.indexOf(character);\n  if (characterIndex == -1) return defaultValues;\n  return [input.slice(0,
characterIndex).trim(), input.slice(characterIndex + 1).trim()];\n}\n\n/**\n * @param {?} value\n * @param {?}
visitor\n * @param {?} context\n * @return {?} \n *\nexport function visitValue(value: any, visitor: ValueVisitor,
context: any): any {\n  if (Array.isArray(value)) {\n    return visitor.visitArray( /** @type {?} */ ((<any[]>value)),
context);\n  }\n\n  if (isStrictStringMap(value)) {\n    return visitor.visitStringMap( /** @type {?} */ ({[key:
string]: any}>value)), context);\n  }\n\n  if (value == null || isPrimitive(value)) {\n    return
visitor.visitPrimitive(value, context);\n  }\n\n  return visitor.visitOther(value, context);\n}\n\nexport interface
ValueVisitor {\n  visitArray(arr: any[], context: any): any;\n  visitStringMap(map: {[key: string]: any}, context:
any): any;\n  visitPrimitive(value: any, context: any): any;\n  visitOther(value: any, context: any): any;\n}\n\nexport
class ValueTransformer implements ValueVisitor {\n  /**\n * @param {?} arr\n * @param {?} context\n * @return
 {?} \n *\nvisitArray(arr: any[], context: any): any {\n  return arr.map(value => visitValue(value, this, context));\n
}\n\n/**\n * @param {?} map\n * @param {?} context\n * @return {?} \n *\nvisitStringMap(map: {[key: string]:
any}, context: any): any {\n  const /** @type {?} */ result: {[key: string]: any} = {};\n  Object.keys(map).forEach(key => { result[key] = visitValue(map[key], this, context); });\n  return result;\n
}\n\n/**\n * @param {?} value\n * @param {?} context\n * @return {?} \n *\nvisitPrimitive(value: any, context:
any): any {\n  return value;\n}\n\n/**\n * @param {?} value\n * @param {?} context\n * @return {?} \n *\nvisitOther(value: any, context: any): any {\n  return value;\n}\n}\n\nexport class SyncAsyncResult<T> {\n  /**\n *
 * @param {?} syncResult\n * @param {?=} asyncResult\n * \nconstructor(public syncResult: T,\npublic asyncResult:
Promise<T> = null) {\n  if (!asyncResult) {\n    this.asyncResult = Promise.resolve(syncResult);\n  }\n}\n\nfunction SyncAsyncResult_tsickle_Closure_declarations() {\n  /** @type {?}
 */\n\nSyncAsyncResult.prototype.syncResult;\n\n/** @type {?}
 */\n\nSyncAsyncResult.prototype.asyncResult;\n}\n\n\nexport class SyntaxError extends BaseError {\n\ninterface

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DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n}}

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/util.js.map

No license file was found, but licenses were detected in source scan.

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```



```
error: true,\n    msg: `Binding to attribute '${name}' is disallowed for security reasons`\n    );\n  } else {\n    return {error: false};\n  }\n}\n\nnormalizeAnimationStyleProperty(propName: string): string {\n  return propName;\n}\n\nnormalizeAnimationStyleValue(camelCaseProp: string, userProvidedProp: string, val: string|number):\n  {\n    error: string, value: string\n  } {\n    return {error: null, value: val.toString()};\n  }\n}\n\ninterface DecoratorInvocation\n  {\n    type: Function;\n    args?: any[];\n  }\n}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-

tgz/package/testing/schema\_registry\_mock.js.map

No license file was found, but licenses were detected in source scan.

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:["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport
{CompileDiDependencyMetadata, CompileDirectiveSummary, CompileIdentifierMetadata,
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DirectiveWrapperDependency} from './deps';\nimport {getPropertyInView, injectFromViewParentInjector} from
'./util';\n\nexport class CompileNode {\n/**\n * @param {?} parent\n * @param {?} view\n * @param {?}
nodeIndex\n * @param {?} renderNode\n * @param {?} sourceAst\n */\nconstructor(\npublic parent:
CompileElement,\npublic view: CompileView,\npublic nodeIndex: number,\npublic renderNode:
o.Expression,\npublic sourceAst: TemplateAst) {\n/**\n * @return {?}\n */\n\nisNotNull(): boolean { return
!this.renderNode; }\n/**\n * @return {?}\n */\n\nisRootElement(): boolean { return this.view !== this.parent.view;
}\n\n\nfunction CompileNode_tsickle_Closure_declarations() {\n/** @type {?} */\n
*\nCompileNode.prototype.parent;\n/** @type {?} */\nCompileNode.prototype.view;\n/** @type {?} */\n
*\nCompileNode.prototype.nodeIndex;\n/** @type {?} */\nCompileNode.prototype.renderNode;\n/** @type {?} */\n
*\nCompileNode.prototype.sourceAst;\n}\n\n\nexport class CompileElement extends CompileNode {\n/**\n *
@return {?}\n */\n\nstatic createNull(): CompileElement {\n return new CompileElement(null, null, null, null,
null, null, [], [], false, false, []);\n }\n\npublic compViewExpr: o.Expression = null;\npublic viewContainer:

```

```

o.ReadPropExpr;\npublic elementRef: o.Expression;\npublic instances = new Map<any, o.Expression>();\npublic
directiveWrapperInstance = new Map<any, o.Expression>();\nprivate _resolvedProviders: Map<any,
ProviderAst>;\nprivate _queryCount = 0;\nprivate _queries = new Map<any, CompileQuery[]>;\npublic
contentNodesByNgContentIndex: Array<CompileViewRootNode>[] = null;\npublic embeddedView:
CompileView;\npublic referenceTokens: {[key: string]: CompileTokenMetadata};\n/**\n * @param {?} parent\n *
@param {?} view\n * @param {?} nodeIndex\n * @param {?} renderNode\n * @param {?} sourceAst\n * @param
{?} component\n * @param {?} _directives\n * @param {?} _resolvedProvidersArray\n * @param {?}
hasViewContainer\n * @param {?} hasEmbeddedView\n * @param {?} references\n */\nconstructor(\n    parent:
CompileElement, view: CompileView, nodeIndex: number, renderNode: o.Expression,\n    sourceAst:
TemplateAst,\n    public component: CompileDirectiveSummary,\n    private _directives:
CompileDirectiveSummary[],\n    private _resolvedProvidersArray: ProviderAst[],\n    public hasViewContainer:
boolean,\n    public hasEmbeddedView: boolean, references: ReferenceAst[]) {\n    super(parent, view, nodeIndex,
renderNode, sourceAst);\n    this.referenceTokens = {};\n    references.forEach(ref =>
this.referenceTokens[ref.name] = ref.value);\n\n    this.elementRef =\n
o.importExpr(createIdentifier(Identifiers.ElementRef)).instantiate([this.renderNode]);\n
this.instances.set(resolveIdentifier(Identifiers.ElementRef), this.elementRef);\n    this.instances.set(\n
resolveIdentifier(Identifiers.Injector),\n        o.THIS_EXPR.callMethod('injector', [o.literal(this.nodeIndex)]));\n
this.instances.set(resolveIdentifier(Identifiers.Renderer), o.THIS_EXPR.prop('renderer'));\n    if
(this.hasViewContainer || this.hasEmbeddedView) {\n        this._createViewContainer();\n    }\n    if (this.component)
{\n        this._createComponentFactoryResolver();\n    }\n\n    /**\n     * @return {?}\n     */\nprivate
_createViewContainer() {\n        const /** @type {?} */ fieldName = `_vc_${this.nodeIndex}`;\n        const /** @type
{?} */ parentNodeIndex = this.isRootElement() ? null : this.parent.nodeIndex;\n        // private is fine here as no child
view will reference a ViewContainer\n        this.view.fields.push(new o.ClassField(\n            fieldName,\n
o.importType(createIdentifier(Identifiers.ViewContainer)),\n            [o.StmtModifier.Private]));\n        const /** @type
{?} */ statement =\n            o.THIS_EXPR.prop(fieldName)\n
.set(o.importExpr(createIdentifier(Identifiers.ViewContainer)).instantiate([\n                o.literal(this.nodeIndex),
o.literal(parentNodeIndex), o.THIS_EXPR, this.renderNode\n            ]))\n            .toStmt();\n        this.view.createMethod.addStmt(statement);\n        this.viewContainer = o.THIS_EXPR.prop(fieldName);\n
this.instances.set(resolveIdentifier(Identifiers.ViewContainer), this.viewContainer);\n
this.view.viewContainers.push(this.viewContainer);\n    }\n\n    /**\n     * @return {?}\n     */\nprivate
_createComponentFactoryResolver() {\n        const /** @type {?} */ entryComponents =\n
this.component.entryComponents.map((entryComponent: CompileIdentifierMetadata) => {\n            const /** @type
{?} */ id: CompileIdentifierMetadata = {reference: null};\n            this.view.targetDependencies.push(new
ComponentFactoryDependency(entryComponent, id));\n            return id;\n        });\n        if (!entryComponents ||
entryComponents.length === 0) {\n            return;\n        }\n        const /** @type {?} */
createComponentFactoryResolverExpr =\n
o.importExpr(createIdentifier(Identifiers.CodegenComponentFactoryResolver)).instantiate([\n
o.literalArr(entryComponents.map((entryComponent) => o.importExpr(entryComponent))),\n
injectFromViewParentInjector(\n            this.view, createIdentifierToken(Identifiers.ComponentFactoryResolver),
false)\n        ]);\n        const /** @type {?} */ provider: CompileProviderMetadata = {\n            token:
createIdentifierToken(Identifiers.ComponentFactoryResolver),\n            useValue:
createComponentFactoryResolverExpr\n        }; \n        // Add ComponentFactoryResolver as first provider as it does not
have deps on other providers\n        // ProviderAstType.PrivateService as only the component and its view can see it,\n
// but nobody else\n        this._resolvedProvidersArray.unshift(new ProviderAst(\n            provider.token, false, true,
[provider], ProviderAstType.PrivateService, [],\n            this.sourceAst.sourceSpan));\n    }\n\n    /**\n     * @return {?}\n     */\nprivate
setComponentView(compViewExpr: o.Expression) {\n        this.compViewExpr = compViewExpr;\n        this.contentNodesByNgContentIndex =\n            new
Array(this.component.template.ngContentSelectors.length);\n        for (let /** @type {?} */ i = 0; i <

```

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this.contentNodesByNgContentIndex.length; i++) {\n    this.contentNodesByNgContentIndex[i] = [];\n    }\n}\n/**\n * @param {?} embeddedView\n * @return {?}\n */\n\nsetEmbeddedView(embeddedView: CompileView)\n{\n    this.embeddedView = embeddedView;\n    if (isPresent(embeddedView)) {\n        const /** @type {?} */\n        createTemplateRefExpr =\n            o.importExpr(createIdentifier(Identifiers.TemplateRef_)).instantiate([\n                o.THIS_EXPR, o.literal(this.nodeIndex), this.renderNode\n            ]);\n        const /** @type {?} */ provider:\n        CompileProviderMetadata = {\n            token: createIdentifierToken(Identifiers.TemplateRef),\n            useValue:\n                createTemplateRefExpr\n        };\n        // Add TemplateRef as first provider as it does not have deps on other\n        providers\n        this._resolvedProvidersArray.unshift(new ProviderAst(\n            provider.token, false, true, [provider],\n            ProviderAstType.Builtin, [],\n            this.sourceAst.sourceSpan));\n    }\n}\n/**\n * @return {?}\n */\n\nbeforeChildren(): void {\n    if (this.hasViewContainer) {\n        this.instances.set(\n            resolveIdentifier(Identifiers.ViewContainerRef), this.viewContainer.prop('vcRef'));\n    }\n}\n\nthis._resolvedProviders = new Map<any, ProviderAst>();\nthis._resolvedProvidersArray.forEach(\n    provider\n    => this._resolvedProviders.set(tokenReference(provider.token), provider));\n\n// create all the provider instances,\n// some in the view constructor, // some as getters. We rely on the fact that they are already sorted topologically.\nArray.from(this._resolvedProviders.values()).forEach((resolvedProvider) => {\n    const /** @type {?} */\n    isDirectiveWrapper = resolvedProvider.providerType === ProviderAstType.Component ||\n        resolvedProvider.providerType === ProviderAstType.Directive;\n    const /** @type {?} */\n    providerValueExpressions = resolvedProvider.providers.map((provider) => {\n        if (provider.useExisting) {\n            return this._getDependency(resolvedProvider.providerType, {token: provider.useExisting});\n        } else if\n            (provider.useFactory) {\n            const /** @type {?} */ deps = provider.deps || provider.useFactory.diDeps;\n            const /** @type {?} */ depsExpr =\n                deps.map((dep) =>\n                    this._getDependency(resolvedProvider.providerType, dep));\n            return\n                o.importExpr(provider.useFactory).callFn(depsExpr);\n        } else if (provider.useClass) {\n            const /** @type\n            {?} */ deps = provider.deps || provider.useClass.diDeps;\n            const /** @type {?} */ depsExpr =\n                deps.map((dep) => this._getDependency(resolvedProvider.providerType, dep));\n            if (isDirectiveWrapper) {\n                const /** @type {?} */ directiveWrapperIdentifier: CompileIdentifierMetadata = {reference: null};\n                this.view.targetDependencies.push(new DirectiveWrapperDependency(\n                    provider.useClass,\n                    DirectiveWrapperCompiler.dirWrapperClassName(provider.useClass),\n                    directiveWrapperIdentifier));\n                return DirectiveWrapperExpressions.create(directiveWrapperIdentifier, depsExpr);\n            } else {\n                return o.importExpr(provider.useClass)\n                    .instantiate(depsExpr, o.importType(provider.useClass));\n            }\n        } else {\n            return convertValueToOutputAst(provider.useValue);\n        }\n    });\n    const /** @type\n    {?} */ propName =\n        `_${tokenName(resolvedProvider.token)}_${this.nodeIndex}_${this.instances.size}`;\n    const /** @type {?} */ instance = createProviderProperty(\n        propName, resolvedProvider,\n        providerValueExpressions, resolvedProvider.multiProvider,\n        resolvedProvider.eager, this);\n    if\n        (isDirectiveWrapper) {\n        this.directiveWrapperInstance.set(tokenReference(resolvedProvider.token),\n            instance);\n        this.instances.set(\n            tokenReference(resolvedProvider.token),\n            DirectiveWrapperExpressions.context(instance));\n    } else {\n        this.instances.set(tokenReference(resolvedProvider.token), instance);\n    }\n}\n\nfor (let /** @type {?} */ i\n    = 0; i < this._directives.length; i++) {\n    const /** @type {?} */ directive = this._directives[i];\n    const /**\n    @type {?} */ directiveInstance = this.instances.get(tokenReference(identifierToken(directive.type)));\n    directive.queries.forEach((queryMeta) => {\n        this._addQuery(queryMeta, directiveInstance);\n    });\n    const /**\n    @type {?} */ queriesWithReads: _QueryWithRead[] = [];\n    Array.from(this._resolvedProviders.values()).forEach((resolvedProvider) => {\n        const /** @type {?} */\n        queriesForProvider = this._getQueriesFor(resolvedProvider.token);\n        queriesWithReads.push(\n            ...queriesForProvider.map(query => new _QueryWithRead(query, resolvedProvider.token));\n        );\n    });\n    Object.keys(this.referenceTokens).forEach(varName => {\n        const /** @type {?} */ token =\n            this.referenceTokens[varName];\n        let /** @type {?} */ varValue: o.Expression;\n        if (token) {\n            varValue\n                = this.instances.get(tokenReference(token));\n        } else {\n            varValue = this.renderNode;\n        }\n    }\n}

```



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this.view.locals.set(varName, varValue);\n    const /** @type {?} */ varToken = { value: varName};\n
queriesWithReads.push(\n    ...this._getQueriesFor(varToken).map(query => new _QueryWithRead(query,\n
varToken));\n    });\n    queriesWithReads.forEach((queryWithRead) => {\n    let /** @type {?} */ value:\n
o.Expression;\n    if (isPresent(queryWithRead.read.identifier)) {\n    // query for an identifier\n    value =\n
this.instances.get(tokenReference(queryWithRead.read));\n    } else {\n    // query for a reference\n    const /**\n
@type {?} */ token = this.referenceTokens[queryWithRead.read.value];\n    if (isPresent(token)) {\n    value =\n
this.instances.get(tokenReference(token));\n    } else {\n    value = this.elementRef;\n    }\n    }\n    if\n
(isPresent(value)) {\n    queryWithRead.query.addValue(value, this.view);\n    }\n    });\n    }\n    /**\n
@param\n
{?} childNodeCount\n    * @return {?} */\n    *^afterChildren(childNodeCount: number) {\n
Array.from(this._resolvedProviders.values()).forEach((resolvedProvider) => {\n    // Note: afterChildren is called\n
after recursing into children.\n    // This is good so that an injector match in an element that is closer to a requesting\n
element\n    // matches first.\n    const /** @type {?} */ providerExpr =\n
this.instances.get(tokenReference(resolvedProvider.token));\n    // Note: view providers are only visible on the\n
injector of that element.\n    // This is not fully correct as the rules during codegen don't allow a directive\n    // to\n
get hold of a view provider on the same element. We still do this semantic\n    // as it simplifies our model to\n
having only one runtime injector per element.\n    const /** @type {?} */ providerChildNodeCount =\n
resolvedProvider.providerType === ProviderAstType.PrivateService ? 0 : childNodeCount;\n
this.view.injectorGetMethod.addStmt(createInjectInternalCondition(\n    this.nodeIndex,\n
providerChildNodeCount, resolvedProvider, providerExpr));\n    });\n    }\n    Array.from(this._queries.values())\n
.forEach(\n    queries => queries.forEach(\n    q =>\n
q.afterChildren(this.view.createMethod, this.view.updateContentQueriesMethod));\n    }\n    /**\n
@param {?} \n
ngContentIndex\n    * @param {?} nodeExpr\n    * @return {?} */\n    *^addContentNode(ngContentIndex: number,\n
nodeExpr: CompileViewRootNode) {\n
this.contentNodesByNgContentIndex[ngContentIndex].push(nodeExpr);\n    }\n    /**\n
@param {?} */\n
*^ngGetComponent(): o.Expression {\n    return isPresent(this.component) ?\n
this.instances.get(tokenReference(identifierToken(this.component.type))) :\n    null;\n    }\n    /**\n
@param {?} */\n
*^ngGetProviderTokens(): o.Expression[] {\n    return Array.from(this._resolvedProviders.values())\n
.map((resolvedProvider) => createDiTokenExpression(resolvedProvider.token));\n    }\n    /**\n
@param {?} */\n
* @return {?} */\n    *^private _getQueriesFor(token: CompileTokenMetadata): CompileQuery[] {\n    const /**\n
@type {?} */ result: CompileQuery[] = [];\n    let /** @type {?} */ currentEl: CompileElement = this;\n    let /**\n
@type {?} */ distance = 0;\n    let /** @type {?} */ queries: CompileQuery[];\n    while (!currentEl.isNull()) {\n
queries = currentEl._queries.get(tokenReference(token));\n    if (isPresent(queries)) {\n
result.push(...queries.filter((query) => query.meta.descendants || distance <= 1));\n    }\n    if\n
(currentEl._directives.length > 0) {\n    distance++;\n    }\n    currentEl = currentEl.parent;\n    }\n    queries =\n
this.view.componentView.viewQueries.get(tokenReference(token));\n    if (isPresent(queries)) {\n
result.push(...queries);\n    }\n    return result;\n    }\n    /**\n
@param {?} queryMeta\n    * @param {?} \n
directiveInstance\n    * @return {?} */\n    *^private _addQuery(queryMeta: CompileQueryMetadata, directiveInstance:\n
o.Expression):\n    CompileQuery {\n    const /** @type {?} */ propName =\n
`_query_${tokenName(queryMeta.selectors[0])}_${this.nodeIndex}_${this._queryCount++}`;\n    const /** @type\n
{?} */ queryList = createQueryList(queryMeta, directiveInstance, propName, this.view);\n    const /** @type {?} */\n
query = new CompileQuery(queryMeta, queryList, directiveInstance, this.view);\n
addQueryToTokenMap(this._queries, query);\n    return query;\n    }\n    /**\n
@param {?} requestingProviderType\n    * @param {?} dep\n    * @return {?} */\n    *^private _getLocalDependency(\n    requestingProviderType:\n
ProviderAstType, dep: CompileDiDependencyMetadata): o.Expression {\n    let /** @type {?} */ result:\n
o.Expression = null;\n    if (isPresent(dep.token)) {\n    // access builtins with special visibility\n    if (!result) {\n
if (tokenReference(dep.token) === resolveIdentifier(Identifiers.ChangeDetectorRef)) {\n    if\n
(requestingProviderType === ProviderAstType.Component) {\n    return this.compileViewExpr.prop('ref');\n
}\n    } else {\n    return getPropertyInView(o.THIS_EXPR.prop('ref'), this.view, this.view.componentView);\n
}

```



```

    view.fields.push(new o.ClassField(propName, type));\n
view.createMethod.addStmt(o.THIS_EXPR.prop(propName).set(resolvedProviderValueExpr).toStmt());\n } else
{\n  const /** @type {?} */ internalField = `_${propName}`;\n  view.fields.push(new o.ClassField(internalField,
type));\n  const /** @type {?} */ getter = new CompileMethod(view);\n
getter.resetDebugInfo(compileElement.nodeIndex, compileElement.sourceAst);\n // Note: Equals is important for
JS so that it also checks the undefined case!\n  getter.addStmt(new o.IfStmt(\n
o.THIS_EXPR.prop(internalField).isBlank(),\n
[o.THIS_EXPR.prop(internalField).set(resolvedProviderValueExpr).toStmt()]);\n  getter.addStmt(new
o.ReturnStatement(o.THIS_EXPR.prop(internalField));\n  view.getters.push(new o.ClassGetter(propName,
getter.finish(), type));\n } return o.THIS_EXPR.prop(propName);\n}\n\nclass _QueryWithRead {\npublic read:
CompileTokenMetadata;\n/**\n * @param {?} query\n * @param {?} match\n * ^\nconstructor(public query:
CompileQuery, match: CompileTokenMetadata) {\n  this.read = query.meta.read || match;\n }\n}\n\nfunction
_QueryWithRead_tsickle_Closure_declarations() {\n /** @type {?} */\n _QueryWithRead.prototype.read;\n /**
@type {?} */\n _QueryWithRead.prototype.query;\n }\n\ninterface DecoratorInvocation {\n  type: Function;\n
args?: any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/compile_element.js.map

```

No license file was found, but licenses were detected in source scan.

```

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```

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C;IACpE,CAAC;IACH,mBAAC;AAAD,CAAC,AA3BD,CAAKC,UAAU,GA2B3C;AAED;IACC,gBAAGB;IACjB, YAAAY,CAAC,SAAS,CAAC,KAAK,CAAC;IAC5B,gBAAGB;IACjB,YAAAY,CAAC,SAAS,CAAC,IAAI,CAAC;A AC5B,CAAC;AAID;IAAKC,gCAAU;IAE5C;;;;;OAKG;IACH,sBACO,QAAoB,EACpB,KAAiB,EAAE,KAAiB,E AAE,IAAiB;QAAjB,oBAAiB,GAAjB,WAAiB;QAC1D,kBAAM,IAAI,IAAI,KAAK,CAAC,IAAI,CAAC,CAAC; QAFvB,aAAQ,GAAR,QAAQ,CAAY;QACpB,UAAK,GAAL,KAAK,CAAY;QAEpB,IAAI,CAAC,KAAK,GAAG, KAAK,CAAC;IACrB,CAAC;IACH;;;;;OAI;IACH,sCAAe,GAAf,UAAgB,OAA0B,EAAE,OAAy;QACpD,MAA M,CAAC,OAAO,CAAC,iBAAiB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACID,CAAC;IACH,mBAAC;AAA D,CAAC,AAtBD,CAAKC,UAAU,GAsB3C;AAED;IACC,gBAAGB;IACjB,YAAAY,CAAC,SAAS,CAAC,KAAK,C AAC;IAC5B,gBAAGB;IACjB,YAAAY,CAAC,SAAS,CAAC,QAAQ,CAAC;IAC/B,gBAAGB;IACjB,YAAAY,CAAC, SAAS,CAAC,KAAK,CAAC;AAC7B,CAAC;AAID;IAAmC,iCAAU;IAE7C;;;;;OAKG;IACH,uBACO,QAAoB,EA CpB,IAAY,EAAE,KAAiB,EAAE,IAAiB;QAAjB,oBAAiB,GAAjB,WAAiB;QACrD,kBAAM,IAAI,IAAI,KAAK, CAAC,IAAI,CAAC,CAAC;QAFvB,aAAQ,GAAR,QAAQ,CAAY;QACpB,SAAI,GAAJ,IAAI,CAAQ;QAEf,IAAI, CAAC,KAAK,GAAG,KAAK,CAAC;IACrB,CAAC;IACH;;;;;OAI;IACH,uCAAe,GAAf,UAAgB,OAA0B,EAAE, OAAy;QACpD,MAAM,CAAC,OAAO,CAAC,kBAaKB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACnD,CAA C;IACH,oBAAC;AAAD,CAAC,AAtBD,CAAmC,UAAU,GAsB5C;AAED;IACC,gBAAGB;IACjB,aAAa,CAAC,S AAS,CAAC,KAAK,CAAC;IAC7B,gBAAGB;IACjB,aAAa,CAAC,SAAS,CAAC,QAAQ,CAAC;IACHc,gBAAGB;I ACjB,aAAa,CAAC,SAAS,CAAC,IAAI,CAAC;AAC7B,CAAC;AAGD,OAAO,IAAI,aAAa,GAAQ,EAAE,CAAC; AACnC,aAAa,CAAC,WAAW,GAAG,CAAC,CAAC;AAC9B,aAAa,CAAC,mBAAmB,GAAG,CAAC,CAAC;AA CtC,aAAa,CAAC,IAAI,GAAG,CAAC,CAAC;AACvB,aAAa,CAAC,aAAa,CAAC,WAAW,CAAC,GAAG,aAAa,C AAC;AACzD,aAAa,CAAC,aAAa,CAAC,mBAAmB,CAAC,GAAG,qBAaQB,CAAC;AACzE,aAAa,CAAC,aAAa, CAAC,IAAI,CAAC,GAAG,MAAM,CAAC;AAG3C;IAAsC,oCAAU;IAGhD;;;;;OAKG;IACH,0BACO,QAAoB,E AAE,MAA4B,EACID,IAAKB,EACnB,IAAiB;QAAjB,oBAAiB,GAAjB,WAAiB;QACnB,kBAAM,IAAI,CAAC,C AAC;QAHT,aAAQ,GAAR,QAAQ,CAAY;QACpB,SAAI,GAAJ,IAAI,CAAc;QAGrB,EAAE,CAAC,CAAC,OAA O,MAAM,KAAK,QAAQ,CAAC,CAAC,CAAC;YAC/B,IAAI,CAAC,IAAI,GAAG,MAAM,CAAC;YACnB,IAAI, CAAC,OAAO,GAAG,IAAI,CAAC;QACtB,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,IAAI,CAAC,IAAI,GAAG, IAAI,CAAC;YACjB,IAAI,CAAC,OAAO,GAaKB,MAAM,CAAC;QACvC,CAAC;IACH,CAAC;IACH;;;;;OAI;I ACH,0CAAe,GAAf,UAAgB,OAA0B,EAAE,OAAy;QACpD,MAAM,CAAC,OAAO,CAAC,qBAaQB,CAAC,IAA I,EAAE,OAAO,CAAC,CAAC;IACtD,CAAC;IACH,uBAAC;AAAD,CAAC,AA9BD,CAAsC,UAAU,GA8B/C;AA ED;IACC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,IAAI,CAAC;IAC/B,gBAAGB;IACjB,gBAAGB,CAAC, SAAS,CAAC,OAAO,CAAC;IAClC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,QAAQ,CAAC;IACnC,gBAA gB;IACjB,gBAAGB,CAAC,SAAS,CAAC,IAAI,CAAC;AACChC,CAAC;AAID;IAAwC,sCAAU;IACID;;;;;OAI;IA CH,4BAAmB,EAAc,EAC1B,IAAKB,EAAE,IAAiB;QAAjB,oBAAiB,GAAjB,WAAiB;QAAl,kBAAM,IAAI,CAA C,CAAC;QADzC,OAAE,GAAf,EAAE,CAAY;QAC1B,SAAI,GAAJ,IAAI,CAAc;IAAoC,CAAC;IAC9D;;;;;OAI; IACH,4CAAe,GAAf,UAAgB,OAA0B,EAAE,OAAy;QACpD,MAAM,CAAC,OAAO,CAAC,uBAaUB,CAAC,IA AI,EAAE,OAAO,CAAC,CAAC;IACxD,CAAC;IACH,yBAAC;AAAD,CAAC,AAhBD,CAAwC,UAAU,GAGBjD; AAED;IACC,gBAAGB;IACjB,kBAaKB,CAAC,SAAS,CAAC,EAAE,CAAC;IAC/B,gBAAGB;IACjB,kBAaKB,C AAC,SAAS,CAAC,IAAI,CAAC;AACIC,CAAC;AAID;IAAqC,mCAAU;IAC/C;;;;;OAI;IACH,yBAAmB,SAaQB ,EACjC,IAAKB,EAAE,IAAW;QAAl,kBAAM,IAAI,CAAC,CAAC;QADnC,cAAS,GAAT,SAAS,CAAY;QACjC,S AAI,GAAJ,IAAI,CAAc;IAA8B,CAAC;IACxD;;;;;OAI;IACH,yCAAe,GAAf,UAAgB,OAA0B,EAAE,OAAy;QA CpD,MAAM,CAAC,OAAO,CAAC,oBAaOB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACrD,CAAC;IACH,sB AAC;AAAD,CAAC,AAhBD,CAAqC,UAAU,GAGB9C;AAED;IACC,gBAAGB;IACjB,eAAe,CAAC,SAAS,CAAC ,SAAS,CAAC;IACnC,gBAAGB;IACjB,eAAe,CAAC,SAAS,CAAC,IAAI,CAAC;AAC/B,CAAC;AAID;IAAiC,+B AAU;IAC3C;;;;;OAGG;IACH,qBAAmB,KAAU,EAAE,IAAiB;QAAjB,oBAAiB,GAAjB,WAAiB;QAAl,kBAAM,IA AI,CAAC,CAAC;QAA7C,UAAK,GAAL,KAAK,CAAK;IAAoC,CAAC;IACIE;;;;;OAI;IACH,qCAAe,GAAf,U AAgB,OAA0B,EAAE,OAAy;QACpD,MAAM,CAAC,OAAO,CAAC,gBAAGB,CAAC,IAAI,EAAE,OAAO,CAA C,CAAC;IACjD,CAAC;IACH,kBAAC;AAAD,CAAC,AAdD,CAAiC,UAAU,GAc1C;AAED;IACC,gBAAGB;IAC jB,WAAW,CAAC,SAAS,CAAC,KAAK,CAAC;AAC5B,CAAC;AAID;IAAKC,gCAAU;IAC5C;;;;;OAI;IACH,sB ACO,KAAgC,EAAE,IAAiB,EACnD,UAAyB;QADS,oBAAiB,GAAjB,WAAiB;QAC1D,0BAAGC,GAAhC,iBAAG

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AAC,IAAI,CAAC;IAC7B,gBAAgB;IACjB,cAAc,CAAC,SAAS,CAAC,IAAI,CAAC;IAC7B,gBAAgB;IACjB,cAA  
c,CAAC,SAAS,CAAC,KAAK,CAAC;AAC/B,CAAC;AAGD;IAAyC,uCAAS;IACID;;;OAMG;IACH,6BACO,I  
AAY,EACZ,MAAiB,EACjB,UAAuB,EACvB,IAAiB,EAAE,SAAGC;QAA1D,oBAAwB,GAAXB,WAAwB;QAAE  
,yBAAGC,GAAhC,gBAAGC;QACtD,kBAAM,SAAS,CAAC,CAAC;QAJd,SAAI,GAAJ,IAAI,CAAQ;QACZ,WAA





O,CAAC,WAAW,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IAC5C,CAAC;IACH,aAAC;AAAD,CAAC,AApBD,CAA4B,SAAS,GAoBpC;AAED;IACC,gBAAgB;IACjB,MAAM,CAAC,SAAS,CAAC,SAAS,CAAC;IAC1B,gBAAgB;IACjB,MAAM,CAAC,SAAS,CAAC,QAAQ,CAAC;IACzB,gBAAgB;IACjB,MAAM,CAAC,SAAS,CAAC,SAAS,CAAC;AAC3B,CAAC;AAID;IAAiC,+BAAS;IAC1C;;OATEG;IACH,qBAAmB,OAAe;QAAI,iBAAO,CAAC;QAA3B,YAAO,GAAP,OAAO,CAAQ;IAAa,CAAC;IACHd;;;OAI;IACH,oCAAc,GAAd,UAAe,OAAyB,EAAE,OAAy;QACID,MAAM,CAAC,OAAO,CAAC,gBAAgB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACjD,CAAC;IACH,kBAAC;AAAD,CAAC,AAbD,CAAiC,SAAS,GAazC;AAED;IACC,gBAAgB;IACjB,WAAW,CAAC,SAAS,CAAC,OAAO,CAAC;AAC9B,CAAC;AAID;IAAkC,gCAAS;IAC3C;;OAGG;IACH,sBAAmB,SAASB,EACIC,UAAuB;QAAI,iBAAO,CAAC;QADvB,cAAS,GAAT,SAAS,CAAa;QACIC,eAAU,GAAV,UAAU,CAAa;IAAa,CAAC;IAC5C;;;OAI;IACH,qCAAc,GAAd,UAAe,OAAyB,EAAE,OAAy;QACID,MAAM,CAAC,OAAO,CAAC,iBAAiB,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IACID,CAAC;IACH,mBAAC;AAAD,CAAC,AAfD,CAAKC,SAAS,GAe1C;AAED;IACC,gBAAgB;IACjB,YAAy,CAAC,SAAS,CAAC,SAAS,CAAC;IACHc,gBAAgB;IACjB,YAAy,CAAC,SAAS,CAAC,UAAU,CAAC;AACIC,CAAC;AAID;IAA+B,6BAAS;IACxC;;OATEG;IACH,mBAAmB,KAAiB;QAAI,iBAAO,CAAC;QAA7B,UAAK,GAAL,KAAK,CAAY;IAAa,CAAC;IACID;;;OAI;IACH,kCAAc,GAAd,UAAe,OAAyB,EAAE,OAAy;QACID,MAAM,CAAC,OAAO,CAAC,cAAc,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;IAC/C,CAAC;IACH,gBAAC;AAAD,CAAC,AAbD,CAA+B,SAAS,GAavC;AAED;IACC,gBAAgB;IACjB,SAAS,CAAC,SAAS,CAAC,KAAK,CAAC;AAC1B,CAAC;AAED;IAAA;IA8PA,CAAC;IA7PD;;;OAI;IACH,gDAAgB,GAAhB,UAAiB,GAAGB,EAAE,OAAy,IAAS,MAAM,CAAC,GAAG,CAAC,CAAC,CAAC;IACrE;;;OAI;IACH,iDAAiB,GAAjB,UAAkB,IAAkB,EAAE,OAAy;QAC9C,MAAM,CAAC,IAAI,YAAy,CAAC,IAAI,CAAC,IAAI,EAAE,IAAI,CAAC,KAAK,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC,CAAC;IACHf,CAAC;IACH;;;OAI;IACH,iDAAiB,GAAjB,UAAkB,IAAkB,EAAE,OAAy;QAC9C,MAAM,CAAC,IAAI,YAAy,CACnB,IAAI,CAAC,QAAQ,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,IAAI,CAAC,KAAK,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EACvF,IAAI,CAAC,KAAK,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC,CAAC;IACjD,CAAC;IACH;;;OAI;IACH,kDAAkB,GAAlB,UAAmB,IAAmB,EAAE,OAAy;QACHd,MAAM,CAAC,IAAI,aAAa,CACpB,IAAI,CAAC,QAAQ,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,IAAI,CAAC,IAAI,EACvD,IAAI,CAAC,KAAK,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC,CAAC;IACjD,CAAC;IACH;;;OAI;IACH,qDAAgB,GAArB,UAAsB,GAAGB,EAAE,OAAy;QACrD,IAAM,gBAAgB,CAAC,MAAM,GAAG,GAAG,CAAC,OAAO,IAAI,GAAG,CAAC,IAAI,CAAC;QACxD,MAAM,CAAC,IAAI,gBAAgB,CACvB,GAAG,CAAC,QAAQ,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,MAAM,EACnD,IAAI,CAAC,mBAAmB,CAAC,GAAG,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,GAAG,CAAC,IAAI,CAAC,CAAC;IAC7D,CAAC;IACH;;;OAI;IACH,uDAAuB,GAAvB,UAAwB,GAAuB,EAAE,OAAy;QACzD,MAAM,CAAC,IAAI,kBAAkB,CACzB,GAAG,CAAC,EAAE,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,IAAI,CAAC,mBAAmB,CAAC,GAAG,CAAC,IAAI,EAAE,OAAO,CAAC,EACIF,GAAG,CAAC,IAAI,CAAC,CAAC;IACHb,CAAC;IACH;;;OAI;IACH,oDAAoB,GAAPB,UAAqB,GAAoB,EAAE,OAAy;QACnD,MAAM,CAAC,IAAI,eAAe,CACtB,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,IAAI,CAAC,mBAAmB,CAAC,GAAG,CAAC,IAAI,EAAE,OAAO,CAAC,EACzF,GAAG,CAAC,IAAI,CAAC,CAAC;IACHB,CAAC;IACH;;;OAI;IACH,gDAAgB,GAAhB,UAAiB,GAAGB,EAAE,OAAy,IAAS,MAAM,CAAC,GAAG,C AAC,CAAC,CAAC;IACrE;;;OAI;IACH,iDAAiB,GAAjB,UAAkB,GAAiB,EAAE,OAAy,IAAS,MAAM,CAAC,GAAG,CAAC,CAAC,CAAC;IACvE;;;OAI;IACH,oDAAoB,GAAPB,UAAqB,GAAoB,EAAE,OAAy;QACnD,MAAM,CAAC,IAAI,eAAe,CACtB,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,GAAG,CAAC,QAAQ,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EACzF,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC,CAAC;IACpD,CAAC;IACH;;;OAI;IACH,4CAAY,GAAZ,UAAa,GAAy,EAAE,OAAy;QACnC,MAAM,CAAC,IAAI,OAAO,CAAC,GAAG,CAAC,SAAS,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC,CAAC;IACnE,CAAC;IACH;;;OAI;IACH,6CAAA,GAAb,UAAc,GAAa,EAAE,OAAy;QACrC,MAAM,CAAC,IAAI,QAAQ,CAAC,GAAG,CAAC,KAAK,CAAC,eAAe,CAAC,IAAI,EAAE,OAAO,CAAC,EAAE,OAAO,CAAC,CAAC;IACzE,CAAC;IACH;;;OAI;IACH,iDAAiB,GAAjB,UAAkB,GAAiB,EAAE,OAAy;QAC7C,sCAAsC;QACtC,MAAM,CAAC,GAAG,CAAC;IACb,CAAC;IACH;;;OAI;IACH,uDAAuB,GAAvB,UAAwB,GAAuB,EAAE,OAAy;QACzD,MAAM,CAAC,IAAI,kBAAkB,CACzB,GAAG,CAAC,QAAQ,



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C, KAAK, CAAC, OAAO, CAAC, UAAA, IAAI, IAAI, OAAA, IAAI, CAAC, cAAc, CAAC, KAAI, EAAE, OAAO, CAA  
C, EAAIC, CAaKc, CAAC, CAAC; IAC5D, CAAC; IACH, iCAAC; AAAD, CAAC, AAIQD, IakQC; AACD; ; ; ; GAKG;  
AACH, uCACI, OAAe, EAAE, QAAoB, EAAE, UAAsB; IAC/D, IAAM, gBAAgB, CAAC, WAAW, GAAG, IAAI, 2BAA  
2B, CAAC, OAAO, EAAE, QAAQ, CAAC, CAAC; IACxF, MAAM, CAAC, UAAU, CAAC, eAAe, CAAC, WAAW, EAA  
E, IAAI, CAAC, CAAC; AACvD, CAAC; AAED; IAA0C, +CAAqB; IAC/D; ; ; OAGG; IACH, qCAAoB, QAAgB, EAC5B,  
SAAqB; QAAI, iBAAO, CAAC; QADrB, aAAQ, GAAR, QAAQ, CAAQ; QAC5B, cAAS, GAAT, SAAS, CAAy; IAAa, C  
AAC; IAC3C; ; ; ; OAIG; IACH, sDAAgB, GAAhB, UAAiB, GAAgB, EAAE, OAAy; QAC3C, MAAM, CAAC, GAAG, C  
AAC, IAAI, IAAI, IAAI, CAAC, QAAQ, GAAG, IAAI, CAAC, SAAS, GAAG, GAAG, CAAC; IAC1D, CAAC; IACH, kC  
AAC; AAAD, CAAC, AAFD, CAA0C, qBAAqB, GAe9D; AAED; IACC, gBAAgB; IACjB, 2BAA2B, CAAC, SAAS, CA  
AC, QAAQ, CAAC; IAC9C, gBAAgB; IACjB, 2BAA2B, CAAC, SAAS, CAAC, SAAS, CAAC; AAChD, CAAC; AAED; ;  
; GAGG; AACH, iCAAiC, KAAkB; IACjD, IAAM, gBAAgB, CAAC, MAAM, GAAG, IAAI, eAAe, EAAE, CAAC; IACt  
D, MAAM, CAAC, kBAaKB, CAAC, KAAK, EAAE, IAAI, CAAC, CAAC; IACvC, MAAM, CAAC, MAAM, CAAC, QA  
AQ, CAAC; AACzB, CAAC; AAED; IAA8B, mCAA0B; IAAxD; QAA8B, 8BAA0B; QACtD, aAAQ, GAAG, IAAI, GAA  
G, EAAU, CAAC; IAU/B, CAAC; IATD; ; ; ; OAIG; IACH, 0CAAgB, GAAhB, UAAiB, GAAgB, EAAE, OAAy; QAC3C, I  
AAI, CAAC, QAAQ, CAAC, GAAG, CAAC, GAAG, CAAC, IAAI, CAAC, CAAC; QAC5B, MAAM, CAAC, IAAI, CAA  
C; IACd, CAAC; IACH, sBAAC; AAAD, CAAC, AAXD, CAA8B, 0BAA0B, GAWvD; AAED; IACC, gBAAgB; IACjB, e  
AAe, CAAC, SAAS, CAAC, QAAQ, CAAC; AACnC, CAAC; AAED; ; ; ; GAIG; AACH, yBAAyB, IAAy, EAAE, IAAiB; I  
AAjB, oBAAiB, GAAjB, WAAiB; IACtD, MAAM, CAAC, IAAI, WAAW, CAAC, IAAI, EAAE, IAAI, CAAC, CAAC; A  
ACrC, CAAC; AACD; ; ; ; GAIG; AACH, 2BAA2B, EAA6B, EAAE, UAAyB; IAAzB, 0BAAyB, GAAzB, iBAAyB; IACjF  
, MAAM, CAAC, IAAI, YAAy, CAAC, EAAE, EAAE, IAAI, EAAE, UAAU, CAAC, CAAC; AAChD, CAAC; AACD; ; ; ;  
GAKG; AACH, 2BACI, EAA6B, EAAE, UAAyB, EACxD, aAAoC; IADL, 0BAAyB, GAAzB, iBAAyB; IACxD, 6BAAo  
C, GAApC, oBAAoC; IACtC, MAAM, CAAC, SAAS, CAAC, EAAE, CAAC, GAAG, cAAc, CAAC, UAAU, CAAC, EAA  
E, CAAC, EAAE, UAAU, EAAE, aAAa, CAAC, GAAG, IAAI, CAAC; AAC1F, CAAC; AACD; ; ; ; GAKG; AACH, +BAC  
I, IAAgB, EAAE, UAAyB, EAC3C, aAAoC; IADIB, 0BAAyB, GAAzB, iBAAyB; IAC3C, 6BAAoC, GAApC, oBAAoC; I  
ACtC, MAAM, CAAC, SAAS, CAAC, IAAI, CAAC, GAAG, IAAI, cAAc, CAAC, IAAI, EAAE, UAAU, EAAE, aAAa, CA  
AC, GAAG, IAAI, CAAC; AACtF, CAAC; AACD; ; ; ; GAIG; AACH, 2BAA2B, MAAoB, EAAE, IAAiB; IAAjB, oBAAiB,  
GAAjB, WAAiB; IACHe, MAAM, CAAC, IAAI, gBAAgB, CAAC, MAAM, EAAE, IAAI, CAAC, CAAC; AAC5C, CAA  
C; AACD; ; ; ; GAIG; AACH, 2BAA2B, MAA8B, EAAE, IAAoB; IAApB, oBAAoB, GAApB, WAAoB; IAC7E, MAAM, C  
AAC, IAAI, cAAc, CAAC, MAAM, CAAC, GAAG, CAAC, UAAA, KAAK, IAAI, OAAA, IAAI, eAAe, CAAC, KAAK, C  
AAC, CAAC, CAAC, EAAE, KAAK, CAAC, CAAC, CAAC, CAAC, EAAvC, CAAuC, CAAC, EAAE, IAAI, CAAC, CA  
AC; AAChG, CAAC; AACD; ; ; GAGG; AACH, oBAAoB, IAAgB; IACIC, MAAM, CAAC, IAAI, OAAO, CAAC, IAAI, C  
AAC, CAAC; AAC3B, CAAC; AACD; ; ; ; GAKG; AACH, mBAAmB, MAAiB, EAAE, IAAiB, EAAE, IAAiB; IAAjB, oB  
AAiB, GAAjB, WAAiB; IACxE, MAAM, CAAC, IAAI, YAAy, CAAC, MAAM, EAAE, IAAI, EAAE, IAAI, CAAC, CA  
AC; AAC9C, CAAC; AACD; ; ; ; GAIG; AACH, wBAAwB, KAAU, EAAE, IAAiB; IAAjB, oBAAiB, GAAjB, WAAiB; IA  
CnD, MAAM, CAAC, IAAI, WAAW, CAAC, KAAK, EAAE, IAAI, CAAC, CAAC; AACtC, CAAC", "sourcesContent": [
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{CompileIdentifierMetadata} from './compile\_metadata';\nimport {isPresent} from './facade/lang';\nexport type  
TypeModifier = number;\nexport let TypeModifier: any = {};\nTypeModifier.Const =  
0;\nTypeModifier[TypeModifier.Const] = \"Const\";\n\n/\*\*\n \* @abstract\n \*\nexport abstract class Type {\n\n \* @param {?} modifiers\n \*\nconstructor(public modifiers: TypeModifier[] = null) {\n if (!modifiers) {\n  
this.modifiers = [];\n } }\n\n /\*\*\n \* @abstract\n \* @param {?} visitor\n \* @param {?} context\n \* @return {?} }\n\n \*\nvisitType(visitor: TypeVisitor, context: any) {} \n\n /\*\*\n \* @param {?} modifier\n \* @return {?} }\n\n \*\nhasModifier(modifier: TypeModifier): boolean { return this.modifiers.indexOf(modifier) !== -1;\n  
}\n\nfunction Type\_tsickle\_Closure\_declarations() {\n /\*\* @type {?} }\n\n \*\nType.prototype.modifiers;\n}\n\nexport type BuiltinTypeName = number;\nexport let BuiltinTypeName: any =  
{};\nBuiltinTypeName.Dynamic = 0;\nBuiltinTypeName.Bool = 1;\nBuiltinTypeName.String =  
2;\nBuiltinTypeName.Int = 3;\nBuiltinTypeName.Number = 4;\nBuiltinTypeName.Function =

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5;\nBuiltinTypeName.Null = 6;\nBuiltinTypeName[BuiltinTypeName.Dynamic] =
\"Dynamic\";\nBuiltinTypeName[BuiltinTypeName.Bool] = \"Bool\";\nBuiltinTypeName[BuiltinTypeName.String]
= \"String\";\nBuiltinTypeName[BuiltinTypeName.Int] = \"Int\";\nBuiltinTypeName[BuiltinTypeName.Number] =
\"Number\";\nBuiltinTypeName[BuiltinTypeName.Function] =
\"Function\";\nBuiltinTypeName[BuiltinTypeName.Null] = \"Null\";\n\n\nexport class BuiltinType extends Type
{\n/**\n * @param {?} name\n * @param {?=} modifiers\n * ^\nconstructor(public name: BuiltinTypeName,
modifiers: TypeModifier[] = null) { super(modifiers); }\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?} \n * ^\nvisitType(visitor: TypeVisitor, context: any): any {\n return visitor.visitBuiltinType(this,
context);\n }\n}\n\nfunction BuiltinType_tsickle_Closure_declarations() {\n/** @type {?}
*\nBuiltinType.prototype.name;\n}\n\n\nexport class ExpressionType extends Type {\n/**\n * @param {?} value\n * @param {?=} typeParams\n * @param {?=} modifiers\n * ^\nconstructor(\npublic value: Expression,\npublic
typeParams: Type[] = null,\n modifiers: TypeModifier[] = null) {\n super(modifiers);\n }\n/**\n * @param {?}
visitor\n * @param {?} context\n * @return {?} \n * ^\nvisitType(visitor: TypeVisitor, context: any): any {\n return
visitor.visitExpressionType(this, context);\n }\n}\n\nfunction ExpressionType_tsickle_Closure_declarations() {\n
/** @type {?} *\nExpressionType.prototype.value;\n /** @type {?}
*\nExpressionType.prototype.typeParams;\n}\n\n\n\nexport class ArrayType extends Type {\n/**\n * @param {?}
of\n * @param {?=} modifiers\n * ^\nconstructor(public of : Type, modifiers: TypeModifier[] = null) {
super(modifiers); }\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?} \n * ^\nvisitType(visitor:
TypeVisitor, context: any): any {\n return visitor.visitArrayType(this, context);\n }\n}\n\n\nfunction
ArrayType_tsickle_Closure_declarations() {\n/** @type {?} *\nArrayType.prototype.of;\n}\n\n\n\nexport class
MapType extends Type {\n/**\n * @param {?} valueType\n * @param {?=} modifiers\n * ^\nconstructor(public
valueType: Type, modifiers: TypeModifier[] = null) { super(modifiers); }\n/**\n * @param {?} visitor\n * @param
{?} context\n * @return {?} \n * ^\nvisitType(visitor: TypeVisitor, context: any): any { return
visitor.visitMapType(this, context); }\n}\n\nfunction MapType_tsickle_Closure_declarations() {\n/** @type {?}
*\nMapType.prototype.valueType;\n}\n\n\n\nexport var /** @type {?} */ DYNAMIC_TYPE = new
BuiltinType(BuiltinTypeName.Dynamic);\nexport var /** @type {?} */ BOOL_TYPE = new
BuiltinType(BuiltinTypeName.Bool);\nexport var /** @type {?} */ INT_TYPE = new
BuiltinType(BuiltinTypeName.Int);\nexport var /** @type {?} */ NUMBER_TYPE = new
BuiltinType(BuiltinTypeName.Number);\nexport var /** @type {?} */ STRING_TYPE = new
BuiltinType(BuiltinTypeName.String);\nexport var /** @type {?} */ FUNCTION_TYPE = new
BuiltinType(BuiltinTypeName.Function);\nexport var /** @type {?} */ NULL_TYPE = new
BuiltinType(BuiltinTypeName.Null);\n\n\nexport interface TypeVisitor {\n visitBuiltinType(type: BuiltinType,
context: any): any;\n visitExpressionType(type: ExpressionType, context: any): any;\n visitArrayType(type:
ArrayType, context: any): any;\n visitMapType(type: MapType, context: any): any;\n}\n\nexport type
BinaryOperator = number;\n\nexport let BinaryOperator: any = {\nBinaryOperator.Equals =
0;\nBinaryOperator.NotEquals = 1;\nBinaryOperator.Idential = 2;\nBinaryOperator.NotIdentical =
3;\nBinaryOperator.Minus = 4;\nBinaryOperator.Plus = 5;\nBinaryOperator.Divide = 6;\nBinaryOperator.Multiply
= 7;\nBinaryOperator.Modulo = 8;\nBinaryOperator.And = 9;\nBinaryOperator.Or = 10;\nBinaryOperator.Lower =
11;\nBinaryOperator.LowerEquals = 12;\nBinaryOperator.Bigger = 13;\nBinaryOperator.BiggerEquals =
14;\nBinaryOperator[BinaryOperator.Equals] = \"Equals\";\nBinaryOperator[BinaryOperator.NotEquals] =
\"NotEquals\";\nBinaryOperator[BinaryOperator.Idential] =
\"Identical\";\nBinaryOperator[BinaryOperator.NotIdentical] =
\"NotIdentical\";\nBinaryOperator[BinaryOperator.Minus] = \"Minus\";\nBinaryOperator[BinaryOperator.Plus] =
\"Plus\";\nBinaryOperator[BinaryOperator.Divide] = \"Divide\";\nBinaryOperator[BinaryOperator.Multiply] =
\"Multiply\";\nBinaryOperator[BinaryOperator.Modulo] = \"Modulo\";\nBinaryOperator[BinaryOperator.And] =
\"And\";\nBinaryOperator[BinaryOperator.Or] = \"Or\";\nBinaryOperator[BinaryOperator.Lower] =
\"Lower\";\nBinaryOperator[BinaryOperator.LowerEquals] =
\"LowerEquals\";\nBinaryOperator[BinaryOperator.Bigger] =

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\"Bigger\";\nBinaryOperator[BinaryOperator.BiggerEquals] = \"BiggerEquals\";\n\n/**\n * @abstract\n * ^\nexport
abstract class Expression {\n/**\n * @param {?} type\n * ^\nconstructor(public type: Type) {\n/**\n * @abstract\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n * ^\nvisitExpression(visitor: ExpressionVisitor,
context: any) {\n/**\n * @param {?} name\n * @return {?}\n * ^\nprop(name: string): ReadPropExpr { return new
ReadPropExpr(this, name); }\n/**\n * @param {?} index\n * @param {?=} type\n * @return {?}\n * ^\nkey(index:
Expression, type: Type = null): ReadKeyExpr {\n return new ReadKeyExpr(this, index, type);\n }\n/**\n *
@param {?} name\n * @param {?} params\n * @return {?}\n * ^\ncallMethod(name: string|BuiltinMethod, params:
Expression[]): InvokeMethodExpr {\n return new InvokeMethodExpr(this, name, params);\n }\n/**\n * @param
{?} params\n * @return {?}\n * ^\ncallFn(params: Expression[]): InvokeFunctionExpr { return new
InvokeFunctionExpr(this, params); }\n/**\n * @param {?} params\n * @param {?=} type\n * @return {?}\n
* ^\ninstantiate(params: Expression[], type: Type = null): InstantiateExpr {\n return new InstantiateExpr(this,
params, type);\n }\n/**\n * @param {?} trueCase\n * @param {?=} falseCase\n * @return {?}\n
* ^\nconditional(trueCase: Expression, falseCase: Expression = null): ConditionalExpr {\n return new
ConditionalExpr(this, trueCase, falseCase);\n }\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nequals(rhs:
Expression): BinaryOperatorExpr {\n return new BinaryOperatorExpr(BinaryOperator.Equals, this, rhs);\n
}\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nnotEquals(rhs: Expression): BinaryOperatorExpr {\n return new
BinaryOperatorExpr(BinaryOperator.NotEquals, this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n
* ^\nidential(rhs: Expression): BinaryOperatorExpr {\n return new BinaryOperatorExpr(BinaryOperator.Idential,
this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nnotIdentical(rhs: Expression): BinaryOperatorExpr
{\n return new BinaryOperatorExpr(BinaryOperator.NotIdentical, this, rhs);\n }\n/**\n * @param {?} rhs\n *
@return {?}\n * ^\nminus(rhs: Expression): BinaryOperatorExpr {\n return new
BinaryOperatorExpr(BinaryOperator.Minus, this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n
* ^\nplus(rhs: Expression): BinaryOperatorExpr {\n return new BinaryOperatorExpr(BinaryOperator.Plus, this,
rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n * ^\ndivide(rhs: Expression): BinaryOperatorExpr {\n return
new BinaryOperatorExpr(BinaryOperator.Divide, this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n
* ^\nmultiply(rhs: Expression): BinaryOperatorExpr {\n return new BinaryOperatorExpr(BinaryOperator.Multiply,
this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nmodulo(rhs: Expression): BinaryOperatorExpr {\n
return new BinaryOperatorExpr(BinaryOperator.Modulo, this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n
* ^\nand(rhs: Expression): BinaryOperatorExpr {\n return new BinaryOperatorExpr(BinaryOperator.And, this,
rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nor(rhs: Expression): BinaryOperatorExpr {\n return new
BinaryOperatorExpr(BinaryOperator.Or, this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nlower(rhs:
Expression): BinaryOperatorExpr {\n return new BinaryOperatorExpr(BinaryOperator.Lower, this, rhs);\n
}\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nlowerEquals(rhs: Expression): BinaryOperatorExpr {\n return
new BinaryOperatorExpr(BinaryOperator.LowerEquals, this, rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n
* ^\nbigger(rhs: Expression): BinaryOperatorExpr {\n return new BinaryOperatorExpr(BinaryOperator.Bigger, this,
rhs);\n }\n/**\n * @param {?} rhs\n * @return {?}\n * ^\nbiggerEquals(rhs: Expression): BinaryOperatorExpr {\n
return new BinaryOperatorExpr(BinaryOperator.BiggerEquals, this, rhs);\n }\n/**\n * @return {?}\n * ^\nisBlank():
Expression {\n // Note: We use equals by purpose here to compare to null and undefined in JS.\n // We use the
typed null to allow strictNullChecks to narrow types.\n return this.equals(TYPED_NULL_EXPR);\n }\n/**\n *
@param {?} type\n * @return {?}\n * ^\ncast(type: Type): Expression { return new CastExpr(this, type); }\n/**\n *
@return {?}\n * ^\ntoStmt(): Statement { return new ExpressionStatement(this); }\n}\n\nfunction
Expression_tsickle_Closure_declarations() {\n/** @type {?} * ^\nExpression.prototype.type;\n}\n\nexport type
BuiltinVar = number;\nexport let BuiltinVar: any = {};\nBuiltinVar.This = 0;\nBuiltinVar.Super =
1;\nBuiltinVar.CatchError = 2;\nBuiltinVar.CatchStack = 3;\nBuiltinVar[BuiltinVar.This] =
\"This\";\nBuiltinVar[BuiltinVar.Super] = \"Super\";\nBuiltinVar[BuiltinVar.CatchError] =
\"CatchError\";\nBuiltinVar[BuiltinVar.CatchStack] = \"CatchStack\";\n\nexport class ReadVarExpr extends
Expression {\npublic name: string;\npublic builtin: BuiltinVar;\n/**\n * @param {?} name\n * @param {?=} type\n
* ^\nconstructor(name: string|BuiltinVar, type: Type = null) {\n super(type);\n if (typeof name === 'string') {\n

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this.name = name;\n    this.builtin = null;\n  } else {\n    this.name = null;\n    this.builtin =
<BuiltinVar>name;\n  }\n  }\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor, context: any): any {\n  return visitor.visitReadVarExpr(this,
context);\n }\n/**\n * @param {?} value\n * @return {?}\n */\nset(value: Expression): WriteVarExpr { return new
WriteVarExpr(this.name, value); }\n\nfunction ReadVarExpr_tsickle_Closure_declarations() {\n/** @type {?}
*/\nReadVarExpr.prototype.name;\n/** @type {?} */\nReadVarExpr.prototype.builtin;\n}\n\n\nexport class
WriteVarExpr extends Expression {\npublic value: Expression;\n/**\n * @param {?} name\n * @param {?} value\n
* @param {?=} type\n */\nconstructor(public name: string, value: Expression, type: Type = null) {\n  super(type ||
value.type);\n  this.value = value;\n }\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor, context: any): any {\n  return visitor.visitWriteVarExpr(this,
context);\n }\n/**\n * @param {?=} type\n * @param {?=} modifiers\n * @return {?}\n */\ntoDeclStmt(type: Type
= null, modifiers: StmtModifier[] = null): DeclareVarStmt {\n  return new DeclareVarStmt(this.name, this.value,
type, modifiers);\n }\n\nfunction WriteVarExpr_tsickle_Closure_declarations() {\n/** @type {?}
*/\nWriteVarExpr.prototype.value;\n/** @type {?} */\nWriteVarExpr.prototype.name;\n}\n\n\nexport class
WriteKeyExpr extends Expression {\npublic value: Expression;\n/**\n * @param {?} receiver\n * @param {?}
index\n * @param {?} value\n * @param {?=} type\n */\nconstructor(\npublic receiver: Expression,\npublic index:
Expression, value: Expression, type: Type = null) {\n  super(type || value.type);\n  this.value = value;\n }\n/**\n *
@param {?} visitor\n * @param {?} context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor,
context: any): any {\n  return visitor.visitWriteKeyExpr(this, context);\n }\n}\n\nfunction
WriteKeyExpr_tsickle_Closure_declarations() {\n/** @type {?} */\nWriteKeyExpr.prototype.value;\n/** @type
{?} */\nWriteKeyExpr.prototype.receiver;\n/** @type {?} */\nWriteKeyExpr.prototype.index;\n}\n\n\nexport
class WritePropExpr extends Expression {\npublic value: Expression;\n/**\n * @param {?} receiver\n * @param
{?} name\n * @param {?} value\n * @param {?=} type\n */\nconstructor(\npublic receiver: Expression,\npublic
name: string, value: Expression, type: Type = null) {\n  super(type || value.type);\n  this.value = value;\n }\n/**\n *
@param {?} visitor\n * @param {?} context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor,
context: any): any {\n  return visitor.visitWritePropExpr(this, context);\n }\n}\n\nfunction
WritePropExpr_tsickle_Closure_declarations() {\n/** @type {?} */\nWritePropExpr.prototype.value;\n/** @type
{?} */\nWritePropExpr.prototype.receiver;\n/** @type {?} */\nWritePropExpr.prototype.name;\n}\n\nexport type
BuiltinMethod = number;\nexport let BuiltinMethod: any = {};\nBuiltinMethod.ConcatArray =
0;\nBuiltinMethod.SubscribeObservable = 1;\nBuiltinMethod.Bind =
2;\nBuiltinMethod[BuiltinMethod.ConcatArray] =
\"ConcatArray\";\nBuiltinMethod[BuiltinMethod.SubscribeObservable] =
\"SubscribeObservable\";\nBuiltinMethod[BuiltinMethod.Bind] = \"Bind\";\n\n\nexport class InvokeMethodExpr
extends Expression {\npublic name: string;\npublic builtin: BuiltinMethod;\n/**\n * @param {?} receiver\n *
@param {?} method\n * @param {?} args\n * @param {?=} type\n */\nconstructor(\npublic receiver: Expression,
method: string|BuiltinMethod,\npublic args: Expression[],\n  type: Type = null) {\n  super(type);\n  if (typeof
method === 'string') {\n    this.name = method;\n    this.builtin = null;\n  } else {\n    this.name = null;\n
this.builtin = <BuiltinMethod>method;\n  }\n }\n/**\n * @param {?} visitor\n * @param {?} context\n * @return
{?}\n */\nvisitExpression(visitor: ExpressionVisitor, context: any): any {\n  return
visitor.visitInvokeMethodExpr(this, context);\n }\n}\n\nfunction
InvokeMethodExpr_tsickle_Closure_declarations() {\n/** @type {?} */\nInvokeMethodExpr.prototype.name;\n
/** @type {?} */\nInvokeMethodExpr.prototype.builtin;\n/** @type {?} */\nInvokeMethodExpr.prototype.receiver;\n
/** @type {?} */\nInvokeMethodExpr.prototype.args;\n}\n\n\nexport class InvokeFunctionExpr extends Expression {\n/**\n *
@param {?} fn\n * @param {?} args\n * @param {?=} type\n */\nconstructor(public fn: Expression,\npublic args:
Expression[], type: Type = null) {\n  super(type); }\n/**\n * @param {?} visitor\n * @param {?} context\n *
@return {?}\n */\nvisitExpression(visitor: ExpressionVisitor, context: any): any {\n  return
visitor.visitInvokeFunctionExpr(this, context);\n }\n}\n\nfunction

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Expression, \npublic rhs: Expression, type: Type = null) {\n  super(type || lhs.type);\n  this.lhs = lhs;\n } \n/**\n *
@param {?} visitor\n * @param {?} context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor,
context: any): any {\n  return visitor.visitBinaryOperatorExpr(this, context);\n }\n}\n\nfunction
BinaryOperatorExpr_tsickle_Closure_declarations() {\n /** @type {?} */\nBinaryOperatorExpr.prototype.lhs;\n /**
@type {?} */\nBinaryOperatorExpr.prototype.operator;\n /** @type {?}
*/\nBinaryOperatorExpr.prototype.rhs;\n }\n}\n\nexport class ReadPropExpr extends Expression {\n/**\n *
@param {?} receiver\n * @param {?} name\n * @param {?=} type\n */\nconstructor(public receiver:
Expression, \npublic name: string, type: Type = null) {\n  super(type);\n } \n/**\n * @param {?} visitor\n * @param {?}
context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor, context: any): any {\n  return
visitor.visitReadPropExpr(this, context);\n }\n}\n\n/**\n * @param {?} value\n * @return {?}\n */\nset(value:
Expression): WritePropExpr {\n  return new WritePropExpr(this.receiver, this.name, value);\n }\n}\n\nfunction
ReadPropExpr_tsickle_Closure_declarations() {\n /** @type {?} */\nReadPropExpr.prototype.receiver;\n /**
@type {?} */\nReadPropExpr.prototype.name;\n }\n}\n\nexport class ReadKeyExpr extends Expression {\n/**\n *
@param {?} receiver\n * @param {?} index\n * @param {?=} type\n */\nconstructor(public receiver:
Expression, \npublic index: Expression, type: Type = null) {\n  super(type);\n } \n/**\n * @param {?} visitor\n *
@param {?} context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor, context: any): any {\n
return visitor.visitReadKeyExpr(this, context);\n }\n}\n\n/**\n * @param {?} value\n * @return {?}\n */\nset(value:
Expression): WriteKeyExpr {\n  return new WriteKeyExpr(this.receiver, this.index, value);\n }\n}\n\nfunction
ReadKeyExpr_tsickle_Closure_declarations() {\n /** @type {?} */\nReadKeyExpr.prototype.receiver;\n /** @type
{?} */\nReadKeyExpr.prototype.index;\n }\n}\n\nexport class LiteralArrayExpr extends Expression {\npublic
entries: Expression[];\n/**\n * @param {?} entries\n * @param {?=} type\n */\nconstructor(entries: Expression[],
type: Type = null) {\n  super(type);\n  this.entries = entries;\n } \n/**\n * @param {?} visitor\n * @param {?}
context\n * @return {?}\n */\nvisitExpression(visitor: ExpressionVisitor, context: any): any {\n  return
visitor.visitLiteralArrayExpr(this, context);\n }\n}\n\nfunction LiteralArrayExpr_tsickle_Closure_declarations() {\n
/** @type {?} */\nLiteralArrayExpr.prototype.entries;\n }\n}\n\nexport class LiteralMapEntry {\n/**\n * @param {?}
key\n * @param {?} value\n * @param {?=} quoted\n */\nconstructor(public key: string, \npublic value:
Expression, \npublic quoted: boolean = false) {\n }\n}\n\nfunction LiteralMapEntry_tsickle_Closure_declarations() {\n
/** @type {?} */\nLiteralMapEntry.prototype.key;\n /** @type {?} */\nLiteralMapEntry.prototype.value;\n /**
@type {?} */\nLiteralMapEntry.prototype.quoted;\n }\n}\n\nexport class LiteralMapExpr extends Expression
{\npublic valueType: Type = null;\n/**\n * @param {?} entries\n * @param {?=} type\n */\nconstructor(public
entries: LiteralMapEntry[], type: MapType = null) {\n  super(type);\n  if (isPresent(type)) {\n    this.valueType =
type.valueType;\n  }\n } \n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n
visitExpression(visitor: ExpressionVisitor, context: any): any {\n  return visitor.visitLiteralMapExpr(this,
context);\n }\n}\n\nfunction LiteralMapExpr_tsickle_Closure_declarations() {\n /** @type {?} */\n
LiteralMapExpr.prototype.valueType;\n /** @type {?} */\nLiteralMapExpr.prototype.entries;\n }\n}\n\nexport
interface ExpressionVisitor {\n  visitReadVarExpr(ast: ReadVarExpr, context: any): any;\n  visitWriteVarExpr(expr:
WriteVarExpr, context: any): any;\n  visitWriteKeyExpr(expr: WriteKeyExpr, context: any): any;\n  visitWritePropExpr(expr: WritePropExpr, context: any): any;\n  visitInvokeMethodExpr(ast: InvokeMethodExpr,
context: any): any;\n  visitInvokeFunctionExpr(ast: InvokeFunctionExpr, context: any): any;\n  visitInstantiateExpr(ast: InstantiateExpr, context: any): any;\n  visitLiteralExpr(ast: LiteralExpr, context: any):
any;\n  visitExternalExpr(ast: ExternalExpr, context: any): any;\n  visitConditionalExpr(ast: ConditionalExpr,
context: any): any;\n  visitNotExpr(ast: NotExpr, context: any): any;\n  visitCastExpr(ast: CastExpr, context: any):
any;\n  visitFunctionExpr(ast: FunctionExpr, context: any): any;\n  visitBinaryOperatorExpr(ast:
BinaryOperatorExpr, context: any): any;\n  visitReadPropExpr(ast: ReadPropExpr, context: any): any;\n  visitReadKeyExpr(ast: ReadKeyExpr, context: any): any;\n  visitLiteralArrayExpr(ast: LiteralArrayExpr, context:
any): any;\n  visitLiteralMapExpr(ast: LiteralMapExpr, context: any): any;\n }\n\nexport var /** @type {?} */
THIS_EXPR = new ReadVarExpr(BuiltinVar.This);\nexport var /** @type {?} */ SUPER_EXPR = new
ReadVarExpr(BuiltinVar.Super);\nexport var /** @type {?} */ CATCH_ERROR_VAR = new

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ReadVarExpr(BuiltinVar.CatchError);\nexport var /** @type {?} */ CATCH_STACK_VAR = new
ReadVarExpr(BuiltinVar.CatchStack);\nexport var /** @type {?} */ NULL_EXPR = new LiteralExpr(null,
null);\nexport var /** @type {?} */ TYPED_NULL_EXPR = new LiteralExpr(null, NULL_TYPE);\nexport type
StmtModifier = number;\nexport let StmtModifier: any = {};\nStmtModifier.Final = 0;\nStmtModifier.Private =
1;\nStmtModifier[StmtModifier.Final] = \"Final\";\nStmtModifier[StmtModifier.Private] = \"Private\";\n\n/**
 * @abstract
 */\nexport abstract class Statement {\n  /**
   * @param {?=} modifiers
   */\n  constructor(public
modifiers: StmtModifier[] = null) {\n    if (!modifiers) {\n      this.modifiers = [];\n    }\n  }\n  /**
   * @abstract
   */\n  /**
   * @param {?} visitor
   * @param {?} context
   * @return {?}
   */\n  visitStatement(visitor: StatementVisitor,
context: any) {\n    /**
     * @param {?} modifier
     * @return {?}
     */\n    hasModifier(modifier: StmtModifier):
boolean { return this.modifiers.indexOf(modifier) !== -1; }\n  }\n  function
Statement_tsickle_Closure_declarations() {\n    /** @type {?} */\n    Statement.prototype.modifiers;\n  }\n  \n\n  export
class DeclareVarStmt extends Statement {\n    public type: Type;\n    /**
     * @param {?} name
     * @param {?} value
     * @param {?=} type
     * @param {?=} modifiers
     */\n    constructor(\n      public name: string,\n      public value:
Expression, type: Type = null,\n      modifiers: StmtModifier[] = null) {\n      super(modifiers);\n      this.type = type ||
value.type;\n    }\n    /**
     * @param {?} visitor
     * @param {?} context
     * @return {?}
     */\n    visitStatement(visitor:
StatementVisitor, context: any): any {\n      return visitor.visitDeclareVarStmt(this, context);\n    }\n  }\n  function
DeclareVarStmt_tsickle_Closure_declarations() {\n    /** @type {?} */\n    DeclareVarStmt.prototype.type;\n    /** @type
{?} */\n    DeclareVarStmt.prototype.name;\n    /** @type {?} */\n    DeclareVarStmt.prototype.value;\n  }\n  \n\n  export class
DeclareFunctionStmt extends Statement {\n    /**
     * @param {?} name
     * @param {?} params
     * @param {?=} type
     * @param {?=} modifiers
     */\n    constructor(\n      public name: string,\n      public
params: FnParam[],\n      public statements: Statement[],\n      public type: Type = null, modifiers: StmtModifier[] = null)
{\n      super(modifiers);\n    }\n    /**
     * @param {?} visitor
     * @param {?} context
     * @return {?}
     */\n    visitStatement(visitor: StatementVisitor, context: any): any {\n      return visitor.visitDeclareFunctionStmt(this,
context);\n    }\n  }\n  function DeclareFunctionStmt_tsickle_Closure_declarations() {\n    /** @type {?} */\n    DeclareFunctionStmt.prototype.name;\n    /** @type {?} */\n    DeclareFunctionStmt.prototype.params;\n    /** @type
{?} */\n    DeclareFunctionStmt.prototype.statements;\n  }\n  \n\n  /**
   * @param {?} type
   */\n  export class ExpressionStatement extends Statement {\n    /**
     * @param {?} expr
     */\n    constructor(public expr: Expression) {\n      super();\n    }\n    /**
     * @param {?} visitor
     * @param {?} context
     * @return {?}
     */\n    visitStatement(visitor: StatementVisitor, context: any): any {\n      return
visitor.visitExpressionStmt(this, context);\n    }\n  }\n  function ExpressionStatement_tsickle_Closure_declarations()
{\n    /** @type {?} */\n    ExpressionStatement.prototype.expr;\n  }\n  \n\n  export class ReturnStatement extends
Statement {\n    /**
     * @param {?} value
     */\n    constructor(public value: Expression) {\n      super();\n    }\n    /**
     * @param {?} visitor
     * @param {?} context
     * @return {?}
     */\n    visitStatement(visitor: StatementVisitor, context: any):
any {\n      return visitor.visitReturnStmt(this, context);\n    }\n  }\n  function
ReturnStatement_tsickle_Closure_declarations() {\n    /** @type {?} */\n    ReturnStatement.prototype.value;\n  }\n  \n\n  export
class AbstractClassPart {\n    /**
     * @param {?=} type
     * @param {?} modifiers
     */\n    constructor(public type: Type = null,\n      public modifiers: StmtModifier[]) {\n      if
(!modifiers) {\n        this.modifiers = [];\n      }\n    }\n    /**
     * @param {?} modifier
     * @return {?}
     */\n    hasModifier(modifier: StmtModifier): boolean { return this.modifiers.indexOf(modifier) !== -1; }\n  }\n  function
AbstractClassPart_tsickle_Closure_declarations() {\n    /** @type {?} */\n    AbstractClassPart.prototype.type;\n  }\n  \n\n  export
class ClassField extends AbstractClassPart {\n    /**
     * @param {?} name
     * @param {?=} type
     * @param {?=} modifiers
     */\n    constructor(public name: string, type: Type = null, modifiers: StmtModifier[] = null) {\n      super(type,
modifiers);\n    }\n  }\n  function ClassField_tsickle_Closure_declarations() {\n    /** @type {?} */\n    ClassField.prototype.name;\n  }\n  \n\n  export class
ClassMethod extends AbstractClassPart {\n    /**
     * @param {?} name
     * @param {?} params
     * @param {?=} type
     * @param {?=} modifiers
     */\n    constructor(\n      public name: string,\n      public params: FnParam[],\n      public body: Statement[], type: Type = null,\n      modifiers: StmtModifier[] = null) {\n      super(type, modifiers);\n    }\n  }\n  function

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    expr.value.visitExpression(this, context));\n } \n/**\n * @param {?} expr\n * @param {?} context\n * @return
    {?} \n *\nvisitWritePropExpr(expr: WritePropExpr, context: any): any {\n  return new WritePropExpr(\n
    expr.receiver.visitExpression(this, context), expr.name,\n    expr.value.visitExpression(this, context));\n } \n/**\n *
    * @param {?} ast\n * @param {?} context\n * @return {?} \n *\nvisitInvokeMethodExpr(ast: InvokeMethodExpr,
    context: any): any {\n  const /** @type {?} */ method = ast.builtin || ast.name;\n  return new
    InvokeMethodExpr(\n    ast.receiver.visitExpression(this, context), method,\n
    this.visitAllExpressions(ast.args, context), ast.type);\n } \n/**\n * @param {?} ast\n * @param {?} context\n *
    * @return {?} \n *\nvisitInvokeFunctionExpr(ast: InvokeFunctionExpr, context: any): any {\n  return new
    InvokeFunctionExpr(\n    ast.fn.visitExpression(this, context), this.visitAllExpressions(ast.args, context),\n
    ast.type);\n } \n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *\nvisitInstantiateExpr(ast:
    InstantiateExpr, context: any): any {\n  return new InstantiateExpr(\n    ast.classExpr.visitExpression(this,
    context), this.visitAllExpressions(ast.args, context),\n    ast.type);\n } \n/**\n * @param {?} ast\n * @param {?}
    context\n * @return {?} \n *\nvisitLiteralExpr(ast: LiteralExpr, context: any): any { return ast; } \n/**\n * @param
    {?} ast\n * @param {?} context\n * @return {?} \n *\nvisitExternalExpr(ast: ExternalExpr, context: any): any {
    return ast; } \n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *\nvisitConditionalExpr(ast:
    ConditionalExpr, context: any): any {\n  return new ConditionalExpr(\n    ast.condition.visitExpression(this,
    context), ast.trueCase.visitExpression(this, context),\n    ast.falseCase.visitExpression(this, context));\n } \n/**\n *
    * @param {?} ast\n * @param {?} context\n * @return {?} \n *\nvisitNotExpr(ast: NotExpr, context: any): any {\n
    return new NotExpr(ast.condition.visitExpression(this, context));\n } \n/**\n * @param {?} ast\n * @param {?}
    context\n * @return {?} \n *\nvisitCastExpr(ast: CastExpr, context: any): any {\n  return new
    CastExpr(ast.value.visitExpression(this, context), context);\n } \n/**\n * @param {?} ast\n * @param {?} context\n
    * @return {?} \n *\nvisitFunctionExpr(ast: FunctionExpr, context: any): any {\n  // Don't descend into nested
    functions\n  return ast;\n } \n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *\n
    *\nvisitBinaryOperatorExpr(ast: BinaryOperatorExpr, context: any): any {\n  return new BinaryOperatorExpr(\n
    ast.operator, ast.lhs.visitExpression(this, context),\n    ast.rhs.visitExpression(this, context), ast.type);\n
    } \n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *\nvisitReadPropExpr(ast: ReadPropExpr,
    context: any): any {\n  return new ReadPropExpr(ast.receiver.visitExpression(this, context), ast.name, ast.type);\n
    } \n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *\nvisitReadKeyExpr(ast: ReadKeyExpr,
    context: any): any {\n  return new ReadKeyExpr(\n    ast.receiver.visitExpression(this, context),
    ast.index.visitExpression(this, context),\n    ast.type);\n } \n/**\n * @param {?} ast\n * @param {?} context\n
    * @return {?} \n *\nvisitLiteralArrayExpr(ast: LiteralArrayExpr, context: any): any {\n  return new
    LiteralArrayExpr(this.visitAllExpressions(ast.entries, context));\n } \n/**\n * @param {?} ast\n * @param {?}
    context\n * @return {?} \n *\nvisitLiteralMapExpr(ast: LiteralMapExpr, context: any): any {\n  const /** @type
    {?} */ entries = ast.entries.map(\n    (entry): LiteralMapEntry => new LiteralMapEntry(\n    entry.key,
    entry.value.visitExpression(this, context), entry.quoted));\n  return new LiteralMapExpr(entries);\n } \n/**\n *
    * @param {?} exprs\n * @param {?} context\n * @return {?} \n *\nvisitAllExpressions(exprs: Expression[], context:
    any): Expression[] {\n  return exprs.map(expr => expr.visitExpression(this, context));\n } \n/**\n * @param {?}
    stmt\n * @param {?} context\n * @return {?} \n *\nvisitDeclareVarStmt(stmt: DeclareVarStmt, context: any): any
    {\n  return new DeclareVarStmt(\n    stmt.name, stmt.value.visitExpression(this, context), stmt.type,
    stmt.modifiers);\n } \n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n *\n
    *\nvisitDeclareFunctionStmt(stmt: DeclareFunctionStmt, context: any): any {\n  // Don't descend into nested
    functions\n  return stmt;\n } \n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n *\n
    *\nvisitExpressionStmt(stmt: ExpressionStatement, context: any): any {\n  return new
    ExpressionStatement(stmt.expr.visitExpression(this, context));\n } \n/**\n * @param {?} stmt\n * @param {?}
    context\n * @return {?} \n *\nvisitReturnStmt(stmt: ReturnStatement, context: any): any {\n  return new
    ReturnStatement(stmt.value.visitExpression(this, context));\n } \n/**\n * @param {?} stmt\n * @param {?}
    context\n * @return {?} \n *\nvisitDeclareClassStmt(stmt: ClassStmt, context: any): any {\n  // Don't descend into
    nested functions\n  return stmt;\n } \n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n
  
```



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context\n * @return {?} \n *\nvisitDeclareVarStmt(stmt: DeclareVarStmt, context: any): any {\n
stmt.value.visitExpression(this, context);\n return stmt;\n }\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n *\nvisitDeclareFunctionStmt(stmt: DeclareFunctionStmt, context: any): any {\n // Don't descend
into nested functions\n return stmt;\n }\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n
*\nvisitExpressionStmt(stmt: ExpressionStatement, context: any): any {\n stmt.expr.visitExpression(this,
context);\n return stmt;\n }\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n
*\nvisitReturnStmt(stmt: ReturnStatement, context: any): any {\n stmt.value.visitExpression(this, context);\n
return stmt;\n }\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n
*\nvisitDeclareClassStmt(stmt: ClassStmt, context: any): any {\n // Don't descend into nested functions\n return
stmt;\n }\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n *\nvisitIfStmt(stmt: IfStmt,
context: any): any {\n stmt.condition.visitExpression(this, context);\n this.visitAllStatements(stmt.trueCase,
context);\n this.visitAllStatements(stmt.falseCase, context);\n return stmt;\n }\n/**\n * @param {?} stmt\n *
@param {?} context\n * @return {?} \n *\nvisitTryCatchStmt(stmt: TryCatchStmt, context: any): any {\n
this.visitAllStatements(stmt.bodyStmts, context);\n this.visitAllStatements(stmt.catchStmts, context);\n return
stmt;\n }\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?} \n *\nvisitThrowStmt(stmt:
ThrowStmt, context: any): any {\n stmt.error.visitExpression(this, context);\n return stmt;\n }\n/**\n * @param
{?} stmt\n * @param {?} context\n * @return {?} \n *\nvisitCommentStmt(stmt: CommentStmt, context: any): any
{\n return stmt;\n }\n/**\n * @param {?} stmts\n * @param {?} context\n * @return {?} \n
*\nvisitAllStatements(stmts: Statement[], context: any): void {\n stmts.forEach(stmt => stmt.visitStatement(this,
context));\n }\n}\n/**\n * @param {?} varName\n * @param {?} newValue\n * @param {?} expression\n *
@return {?} \n *\nexport function replaceVarInExpression(\n varName: string, newValue: Expression, expression:
Expression): Expression {\n const /** @type {?} */ transformer = new _ReplaceVariableTransformer(varName,
newValue);\n return expression.visitExpression(transformer, null);\n }\n}\n\nclass _ReplaceVariableTransformer
extends ExpressionTransformer {\n /**\n * @param {?} _varName\n * @param {?} _newValue\n
*\nconstructor(private _varName: string,\nprivate _newValue: Expression) { super(); }\n/**\n * @param {?} ast\n *
@param {?} context\n * @return {?} \n *\nvisitReadVarExpr(ast: ReadVarExpr, context: any): any {\n return
ast.name == this._varName ? this._newValue : ast;\n }\n}\n\nfunction
_ReplaceVariableTransformer_tsickle_Closure_declarations() {\n /** @type {?}
*\n_ReplaceVariableTransformer.prototype._varName;\n /** @type {?}
*\n_ReplaceVariableTransformer.prototype._newValue;\n }\n}\n/**\n * @param {?} stmts\n * @return {?} \n
*\nexport function findReadVarNames(stmts: Statement[]): Set<string> {\n const /** @type {?} */ finder = new
_VariableFinder();\n finder.visitAllStatements(stmts, null);\n return finder.varNames;\n }\n}\n\nclass _VariableFinder
extends RecursiveExpressionVisitor {\n varNames = new Set<string>();\n /**\n * @param {?} ast\n * @param {?}
context\n * @return {?} \n *\nvisitReadVarExpr(ast: ReadVarExpr, context: any): any {\n
this.varNames.add(ast.name);\n return null;\n }\n}\n\nfunction _VariableFinder_tsickle_Closure_declarations()
{\n /** @type {?} */\n_VariableFinder.prototype.varNames;\n }\n}\n/**\n * @param {?} name\n * @param {?} =
type\n * @return {?} \n *\nexport function variable(name: string, type: Type = null): ReadVarExpr {\n return new
ReadVarExpr(name, type);\n }\n/**\n * @param {?} id\n * @param {?} = typeParams\n * @return {?} \n
*\nexport function importExpr(id: CompileIdentifierMetadata, typeParams: Type[] = null): ExternalExpr {\n return new
ExternalExpr(id, null, typeParams);\n }\n/**\n * @param {?} id\n * @param {?} = typeParams\n * @param {?} =
typeModifiers\n * @return {?} \n *\nexport function importType(\n id: CompileIdentifierMetadata, typeParams:
Type[] = null,\n typeModifiers: TypeModifier[] = null): ExpressionType {\n return isPresent(id) ?
expressionType(importExpr(id), typeParams, typeModifiers) : null;\n }\n/**\n * @param {?} expr\n * @param {?} =
typeParams\n * @param {?} = typeModifiers\n * @return {?} \n *\nexport function expressionType(\n expr:
Expression, typeParams: Type[] = null,\n typeModifiers: TypeModifier[] = null): ExpressionType {\n return
isPresent(expr) ? new ExpressionType(expr, typeParams, typeModifiers) : null;\n }\n}\n/**\n * @param {?} values\n *
@param {?} = type\n * @return {?} \n *\nexport function literalArr(values: Expression[], type: Type = null):
LiteralArrayExpr {\n return new LiteralArrayExpr(values, type);\n }\n}\n/**\n * @param {?} values\n * @param {?} =

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type\n * @return {?}\n *\nexport function literalMap(values: [string, Expression][], type: MapType = null):  
LiteralMapExpr {\n  return new LiteralMapExpr(values.map(entry => new LiteralMapEntry(entry[0], entry[1])),  
  type);\n}\n\n/**\n * @param {?} expr\n * @return {?}\n *\nexport function not(expr: Expression): NotExpr {\n  return new NotExpr(expr);\n}\n\n/**\n * @param {?} params\n * @param {?} body\n * @param {?=} type\n *\nexport function fn(params: FnParam[], body: Statement[], type: Type = null): FunctionExpr {\n  return new FunctionExpr(params, body, type);\n}\n\n/**\n * @param {?} value\n * @param {?=} type\n *\nexport function literal(value: any, type: Type = null): LiteralExpr {\n  return new LiteralExpr(value,  
  type);\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/output/output\_ast.js.map

No license file was found, but licenses were detected in source scan.

```
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CxB,YAAO,GAA2B,EAAE,CAAC;QACrC,eAAU,GAAG,IAAI,GAAG,EAAqB,CAAC;QAC1C,iBAAy,GAakB,  
EAAE,CAAC;QACjC,kBAaA,GAakB,EAAE,CAAC;IAWH,CAAC;IACxC;;;OAGG;IACH,sCAAW,GAAX,UAA  
Y,gBAA6B;QAAzC,iBAYG;QAXC,IAAM,gBAAgB,CAAC,wBAAwB,GAC3C,gBAAgB,CAAC,SAAS,CAAC,G  
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CAAC;QACnF,IAAM,gBAAgB,CAAC,QAAQ,GAAG,MAAI,SAAS,CAAC,gBAAgB,CAAC,KAAK,CAAC,SAA  
I,IAAI,CAAC,UAAU,CAAC,IAAM,CAAC;QACIG,IAAM,gBAAgB,CAAC,QAAQ,GAAG,IAAI,CAAC,uBAAu  
B,CAC1D,QAAQ,EAAE,gBAAgB,EAAE,wBAAwB,EAAE,gBAAgB,CAAC,aAAa,EACpF,gBAAgB,CAAC,KA  
AK,CAAC,CAAC;QAC5B,EAAE,CAAC,CAAC,gBAAgB,CAAC,cAAc,CAAC,OAAO,CAAC,cAAc,CAAC,SAA  
S,CAAC,KAAK,CAAC,CAAC,CAAC,CAAC,CAAC;YAC7E,IAAI,CAAC,aAAa,CAAC,IAAI,CAAC,QAAQ,CA  
AC,UAAU,CAAC,aAAa,EAAE,EAAE,CAAC,CAAC,MAAM,EAAE,CAAC,CAAC;QAC3E,CAAC;QACD,IAAI,  
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AEG;IACH,gCAAK,GAAL;QAAA,iBAwCG;QAvCC,IAAM,gBAAgB,CAAC,cAAc,GAakB,IAAI,CAAC,OAA  
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AI,CAAC,CAAC,eAAe,CAAC,YAAY,CAAC,CAAC,CAAC,CAAC;QAC7C,CAAC,CAAC,CAAC;QACH,IAAM  
,gBAAgB,CAAC,OAAO,GAAG;YAC/B,IAAI,CAAC,CAAC,WAAW,CACb,gBAAgB,EAAE,EAAE,EAAE,IAAI  
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;aACpE,EACD,cAAc,CAAC,MAAM,CAAC,CAAC,IAAI,CAAC,CAAC,eAAe,CAAC,gBAAgB,CAAC,cAAc,CA  
AC,CAAC,CAAC,EAC/E,CAAC,CAAC,YAAY,CAAC;YACnB,IAAI,CAAC,CAAC,WAAW,CAAC,iBAAiB,EA  
AE,EAAE,EAAE,IAAI,CAAC,aAAa,CAAC;SAC7D,CAAC;QAEF,IAAM,gBAAgB,CAAC,UAAU,GAAG;YACI  
C,CAAC,CAAC,QAAQ,CAAC,aAAa,CAAC,MAAM,CAAC,IAAI,CAAC;YACrC,CAAC,CAAC,UAAU,CACR,I  
AAI,CAAC,wBAAwB,CAAC,GAAG,CAAC,UAAC,gBAAgB,IAAK,OAAA,CAAC,CAAC,UAAU,CAAC,gBAA  
gB,CAAC,EAA9B,CAA8B,CAAC,CAAC;YAC5F,CAAC,CAAC,UAAU,CAAC,IAAI,CAAC,4BAA4B,CAAC,G  
AAG,CAC9C,UAAC,gBAAgB,IAAK,OAAA,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,EAA9B,CAA8B,CA  
AC,CAAC;SAC3D,CAAC;QACF,IAAM,gBAAgB,CAAC,YAAY,GAAM,cAAc,CAAC,IAAI,CAAC,aAAa,CAA  
C,IAAI,CAAC,aAAU,CAAC;QAC3F,MAAM,CAAC,eAAe,CAAC;YACrB,IAAI,EAAE,YAAY;YACIB,UAAU,E

AAE,CAAC,IAAI,CAAC,CAAC,OAAO,CACtB,aAAa,CAAC,MAAM,CAAC,IAAI,EAAE,CAAC,CAAC,UAAU,CAAC,gBAAgB,CAAC,WAAW,CAAC,QAAQ,CAAC,CAAC,CAAC,CAAC;YACrF,MAAM,EAAE,CAAC,CAAC,UAAU,CACbB,gBAAgB,CAAC,WAAW,CAAC,gBAAgB,CAAC,EAAE,CAAC,CAAC,CAAC,UAAU,CAAC,IAAI,CAAC,aAAa,CAAC,IAAI,CAAC,CAAC,CAAC;YAC5F,UAAU,EAAE,UAAU;YACtB,QAAQ,EAAE,CAAC,EAAE,gBAAO,EAAE,IAAI,CAAC;SAC5B,CAAC,CAAC;IACL,CAAC;IACH;;;OAGG;IACK,4CAAiB,GAAzB,UAA0B,QAAiC;QAA3D,iBAiBG;QAhBC,IAAI,gBAAgB,CAAC,MAAoB,CAAC;QAC1C,EAAE,CAAC,CAAC,SAAS,CAAC,QAAQ,CAAC,WAAW,CAAC,CAAC,CAAC,CAAC;YACpC,MAAM,GAAG,IAAI,CAAC,cAAc,CAAC,EAAE,KAAC,EAAE,QAAQ,CAAC,WAAW,EAAE,CAAC,CAAC;QAC9D,CAAC;QAAC,IAAI,CAAC,EAAE,CAAC,CAAC,SAAS,CAAC,QAAQ,CAAC,UAAU,CAAC,CAAC,CAAC,CAAC;YAC1C,IAAM,gBAAgB,CAAC,IAAI,GAAG,QAAQ,CAAC,IAAI,IAAI,QAAQ,CAAC,UAAU,CAAC,MAAM,CAAC;YAC1E,IAAM,gBAAgB,CAAC,QAAQ,GAAG,IAAI,CAAC,GAAG,CAAC,UAAU,GAAG,IAAK,OAAA,KAAI,CAAC,cAAc,CAAC,GAAG,CAAC,EAAxB,CAAwB,CAAC,CAAC;YAC9E,MAAM,GAAG,CAAC,CAAC,UAAU,CAAC,QAAQ,CAAC,UAAU,CAAC,CAAC,MAAM,CAAC,QAAQ,CAAC,CAAC;QAC9D,CAAC;QAAC,IAAI,CAAC,EAAE,CAAC,CAAC,SAAS,CAAC,QAAQ,CAAC,QAAQ,CAAC,CAAC,CAAC,CAAC;YACxC,IAAM,gBAAgB,CAAC,IAAI,GAAG,QAAQ,CAAC,IAAI,IAAI,QAAQ,CAAC,QAAQ,CAAC,MAAM,CAAC;YACxE,IAAM,gBAAgB,CAAC,QAAQ,GAAG,IAAI,CAAC,GAAG,CAAC,UAAU,GAAG,IAAK,OAAA,KAAI,CAAC,cAAc,CAAC,GAAG,CAAC,EAAxB,CAAwB,CAAC,CAAC;YAC9E,MAAM;gBACF,CAAC,CAAC,UAAU,CAAC,QAAQ,CAAC,QAAQ,CAAC,CAAC,WAAW,CAAC,QAAQ,EAAE,CAAC,CAAC,UAAU,CAAC,QAAQ,CAAC,QAAQ,CAAC,CAAC;QAC7F,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,MAAM,GAAG,uBAAuB,CAAC,QAAQ,CAAC,QAAQ,CAAC,CAAC;QACtD,CAAC;QACD,MAAM,CAAC,MAAM,CAAC;IACHb,CAAC;IACH;;;;OAGG;IACK,kDAAuB,GAA/B,UACM,QAAgB,EAAE,QAAqB,EAAE,wBAAwC,EACjF,OAAgB,EAAE,OAAgB;QACpC,IAAI,gBAAgB,CAAC,yBAAuC,CAAC;QAC7D,IAAI,gBAAgB,CAAC,IAAY,CAAC;QAC1C,EAAE,CAAC,CAAC,OAAO,CAAC,CAAC,CAAC;YACZ,yBAAyB,GAAG,CAAC,CAAC,UAAU,CAAC,wBAAwB,CAAC,CAAC;YACnE,IAAI,GAAG,IAAI,CAAC,CAAC,SAAS,CAAC,CAAC,CAAC,YAAY,CAAC,CAAC;QACzC,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,yBAAyB,GAAG,wBAAwB,CAAC,CAAC,CAAC,CAAC;YACxD,IAAI,GAAG,wBAAwB,CAAC,CAAC,CAAC,CAAC,IAAI,CAAC;QAC1C,CAAC;QACD,EAAE,CAAC,CAAC,CAAC,IAAI,CAAC,CAAC,CAAC;YACV,IAAI,GAAG,CAAC,CAAC,YAAY,CAAC;QACxB,CAAC;QACD,EAAE,CAAC,CAAC,OAAO,CAAC,CAAC,CAAC;YACZ,IAAI,CAAC,MAAM,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,UAAU,CAAC,QAAQ,EAAE,IAAI,CAAC,CAAC,CAAC;YACnD,IAAI,CAAC,YAAY,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC,SAAS,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC,GAAG,CAAC,yBAAyB,CAAC,CAAC,MAAM,EAAE,CAAC,CAAC;QAC7F,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,IAAM,gBAAgB,CAAC,aAAa,GAAG,MAAI,QAAU,CAAC;YACtD,IAAI,CAAC,MAAM,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,UAAU,CAAC,aAAa,EAAE,IAAI,CAAC,CAAC,CAAC;YACxD,8EAA8E;YAC9E,IAAM,gBAAgB,CAAC,WAAW,GAAG;gBACnC,IAAI,CAAC,CAAC,MAAM,CACR,CAAC,CAAC,SAAS,CAAC,IAAI,CAAC,aAAa,CAAC,CAAC,OAAO,EAAE,EACzC,CAAC,CAAC,CAAC,SAAS,CAAC,IAAI,CAAC,aAAa,CAAC,CAAC,GAAG,CAAC,yBAAyB,CAAC,CAAC,MAAM,EAAE,CAAC,CAAC;gBAC9E,IAAI,CAAC,CAAC,eAAe,CAAC,CAAC,CAAC,SAAS,CAAC,IAAI,CAAC,aAAa,CAAC,CAAC;aACvD,CAAC;YACF,IAAI,CAAC,OAAO,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,WAAW,CAAC,QAAQ,EAAE,WAAW,EAAE,IAAI,CAAC,CAAC,CAAC;QACpE,CAAC;QACD,MAAM,CAAC,CAAC,CAAC,SAAS,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;IACpC,CAAC;IACH;;;OAGG;IACK,yCAAc,GAAtB,UAAuB,GAAgC;QACnD,IAAI,gBAAgB,CAAC,MAAM,GAAiB,IAAI,CAAC;QACjD,EAAE,CAAC,CAAC,GAAG,CAAC,OAAO,CAAC,CAAC,CAAC;YACbB,MAAM,GAAG,CAAC,CAAC,OAAO,CAAC,GAAG,CAAC,KAAC,CAAC,CAAC;QACcC,CAAC;QACD,EAAE,CAAC,CAAC,CAAC,GAAG,CAAC,UAAU,CAAC,CAAC,CAAC;YACpB,EAAE,CAAC,CAAC,GAAG,CAAC,KAAC;gBACT,CAAC,cAAc,CAAC,GAAG,CAAC,KAAC,CAAC,KAAC,iBAAiB,CAAC,WAAW,CAAC,QAAQ,CAAC;oBACrE,cAAc,CAAC,GAAG,CAAC,KAAC,CAAC,KAAC,iBAAiB,CAAC,WAAW,CAAC,wBAAwB,CAAC,CAAC,CAAC,CAAC,CAAC;gBAC5F,MAAM,GAAG,CAAC,CAAC,SAAS,CAAC;YACvB,CAAC;YACD,EAAE,CAAC,CAAC,CAAC,MAAM,CAAC,CAAC,CAAC;gBACZ,MAAM,GAAG,IAAI,CAAC,UAAU,CAAC,GAAG,CAAC,cAAc,CAAC,GAAG,CAAC,KAAC,CAAC,CAAC,CAAC;YAC1D,CAAC;QACH,CAAC;QACD,EAAE,CAAC,CAAC,CAAC,MAAM,CAAC,CAAC,CAAC;YACZ,

IAAM,gBAAGB,CAAC,IAAI,GAAG,CAAC,uBAaUB,CAAC,GAAG,CAAC,KAAC,CAAC,CAAC,CAAC;YACnE,EAAE,CAAC,CAAC,GAAG,CAAC,UAAU,CAAC,CAAC,CAAC;gBACnB,IAAI,CAAC,IAAI,CAAC,CAAC,CAAC,SAAS,CAAC,CAAC;YACzB,CAAC;YACD,MAAM,GAAG,aAAa,CAAC,MAAM,CAAC,UAAU,CAAC,KAAC,EAAE,IAAI,CAAC,CAAC;QACxD,CAAC;QACD,MAAM,CAAC,MAAM,CAAC;IACbB,CAAC;IACH,uBAAC;AAAD,CAAC,AA3KD,IA2KC;AAED;IACC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,MAAM,CAAC;IACjC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,OAAO,CAAC;IACiC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,OAAO,CAAC;IACiC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,SAAS,CAAC;IACpC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,OAAO,CAAC;IACiC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,UAAU,CAAC;IACrC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,YAAY,CAAC;IACvC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,aAAa,CAAC;IACxC,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,wBAawB,CAAC;IACnD,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,4BAA4B,CAAC;IACvD,gBAAGB;IACjB,gBAAGB,CAAC,SAAS,CAAC,WAAW,CAAC;AACvC,CAAC;AAGD;IAAA;IAEA,CAAC;IADQ,oBAAM,GAAG,CAAC,CAAC,SAAS,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;IAC7C,oBAAC;AAAD,CAAC,AAFD,IAEC;AAED;IACC,gBAAGB;IACjB,aAAa,CAAC,MAAM,CAAC;AACrB,CAAC;AAGD;IAAA;IAGA,CAAC;IAFQ,sBAAK,GAAG,CAAC,CAAC,QAAQ,CAAC,OAAO,CAAC,CAAC;IAC5B,+BAAc,GAAG,CAAC,CAAC,QAAQ,CAAC,gBAAGB,CAAC,CAAC;IACvD,uBAAC;AAAD,CAAC,AAHD,IAGC;AAED;IACC,gBAAGB;IACjB,gBAAGB,CAAC,KAAC,CAAC;IACtB,gBAAGB;IACjB,gBAAGB,CAAC,cAAc,CAAC;AACHC,CAAC", "sourcesContent": ["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\nimport { CompileDiDependencyMetadata, CompileIdentifierMetadata, CompileNgModuleMetadata, CompileProviderMetadata, CompileTokenMetadata, identifierModuleUrl, identifierName, tokenName, tokenReference } from './compile\_metadata';\nimport { createDiTokenExpression } from './compiler\_util/identifier\_util';\nimport { isPresent } from './facade/lang';\nimport { Identifiers, createIdentifier, createIdentifierToken, resolveIdentifier } from './identifiers';\nimport { CompilerInjectable } from './injectable';\nimport { ClassBuilder, createClassStmt } from './output/class\_builder';\nimport \* as o from './output/output\_ast';\nimport { convertValueToOutputAst } from './output/value\_util';\nimport { ParseLocation, ParseSourceFile, ParseSourceSpan } from './parse\_util';\nimport { LifecycleHooks } from './private\_import\_core';\nimport { NgModuleProviderAnalyzer } from './provider\_analyzer';\nimport { ProviderAst } from './template\_parser/template\_ast';\n\nexport class ComponentFactoryDependency {\n /\*\*\n \* @param {?} comp\n \* @param {?} placeholder\n \*\n \* @constructor\n \* @public comp: CompileIdentifierMetadata,\n \* @public placeholder: CompileIdentifierMetadata\n \*/\n constructor(comp: CompileIdentifierMetadata, placeholder: CompileIdentifierMetadata) {\n }\n\n /\*\*\n \* @type {?}\n \*/\n function ComponentFactoryDependency\_tsickle\_Closure\_declarations() {\n }\n\n /\*\*\n \* @type {?}\n \*/\n prototype.comp;\n\n /\*\*\n \* @type {?}\n \*/\n prototype.placeholder;\n\n /\*\*\n \* @type {?}\n \*/\n constructor(\n public statements: o.Statement[],\n public ngModuleFactoryVar: string,\n public dependencies: ComponentFactoryDependency[]\n ) {\n }\n\n /\*\*\n \* @type {?}\n \*/\n function NgModuleCompileResult\_tsickle\_Closure\_declarations() {\n }\n\n /\*\*\n \* @type {?}\n \*/\n prototype.statements;\n\n /\*\*\n \* @type {?}\n \*/\n prototype.ngModuleFactoryVar;\n\n /\*\*\n \* @type {?}\n \*/\n prototype.dependencies;\n\n /\*\*\n \* @type {?}\n \*/\n @CompilerInjectable()\n export class NgModuleCompiler {\n /\*\*\n \* @param {?} ngModuleMeta\n \* @param {?} extraProviders\n \* @return {?}\n \*/\n compile(ngModuleMeta: CompileNgModuleMetadata, extraProviders: CompileProviderMetadata[]): NgModuleCompileResult {\n const /\*\* @type {?} \*/ moduleUrl = identifierModuleUrl(ngModuleMeta.type);\n const /\*\* @type {?} \*/ sourceFileName = isPresent(moduleUrl) ?\n `in NgModule\n \${identifierName(ngModuleMeta.type)} in \${moduleUrl}` :\n `in NgModule\n \${identifierName(ngModuleMeta.type)});\n const /\*\* @type {?} \*/ sourceFile = new ParseSourceFile(\n sourceFileName);\n const /\*\* @type {?} \*/ sourceSpan = new ParseSourceSpan(\n new ParseLocation(sourceFile, null, null, null),\n new ParseLocation(sourceFile, null, null, null));\n const /\*\*

```

@type {?} */ deps: ComponentFactoryDependency[] = [];\n  const /** @type {?} */
bootstrapComponentFactories: CompileIdentifierMetadata[] = [];\n  const /** @type {?} */
entryComponentFactories =\n    ngModuleMeta.transitiveModule.entryComponents.map((entryComponent) =>
{\n      const /** @type {?} */ id: CompileIdentifierMetadata = {reference: null};\n      if
(ngModuleMeta.bootstrapComponents.some(\n        (id) => id.reference === entryComponent.reference)) {\n
        bootstrapComponentFactories.push(id);\n      }\n      deps.push(new
ComponentFactoryDependency(entryComponent, id);\n      return id;\n    });\n  const /** @type {?} */
builder = new _InjectorBuilder(\n    ngModuleMeta, entryComponentFactories, bootstrapComponentFactories,
sourceSpan);\n  const /** @type {?} */ providerParser = new NgModuleProviderAnalyzer(ngModuleMeta,
extraProviders, sourceSpan);\n  providerParser.parse().forEach((provider) => builder.addProvider(provider));\n
const /** @type {?} */ injectorClass = builder.build();\n  const /** @type {?} */ ngModuleFactoryVar =
`${identifierName(ngModuleMeta.type)}NgFactory`;\n  const /** @type {?} */ ngModuleFactoryStmt =\n
o.variable(ngModuleFactoryVar)\n    .set(o.importExpr(createIdentifier(Identifiers.NgModuleFactory))\n
    .instantiate(\n      [o.variable(injectorClass.name), o.importExpr(ngModuleMeta.type)],\n
    o.importType(\n      createIdentifier(Identifiers.NgModuleFactory),\n
[o.importType(ngModuleMeta.type)], [o.TypeModifier.Const])))\n    .toDeclStmt(null,
[o.StmtModifier.Final]);\n  const /** @type {?} */ stmts: o.Statement[] = [injectorClass,
ngModuleFactoryStmt];\n  if (ngModuleMeta.id) {\n    const /** @type {?} */ registerFactoryStmt =\n
o.importExpr(createIdentifier(Identifiers.RegisterModuleFactoryFn))\n    .callFn([o.literal(ngModuleMeta.id),
o.variable(ngModuleFactoryVar)])\n    .toStmt();\n    stmts.push(registerFactoryStmt);\n  }\n  return new
NgModuleCompileResult(stmts, ngModuleFactoryVar, deps);\n }\n}\n\nclass _InjectorBuilder implements
ClassBuilder {\n  fields: o.ClassField[] = [];\n  getters: o.ClassGetter[] = [];\n  methods: o.ClassMethod[] = [];\n
ctorStmts: o.Statement[] = [];\n  private _tokens: CompileTokenMetadata[] = [];\n  private _instances = new Map<any,
o.Expression>();\n  private _createStmts: o.Statement[] = [];\n  private _destroyStmts: o.Statement[] = [];\n  /**\n
@param {?} _ngModuleMeta\n * @param {?} _entryComponentFactories\n * @param {?}
_bootstrapComponentFactories\n * @param {?} _sourceSpan\n * ^\nconstructor(\nprivate _ngModuleMeta:
CompileNgModuleMetadata,\nprivate _entryComponentFactories: CompileIdentifierMetadata[],\nprivate
_bootstrapComponentFactories: CompileIdentifierMetadata[],\nprivate _sourceSpan: ParseSourceSpan) {\n  /**\n
@param {?} resolvedProvider\n * @return ?\n * ^\naddProvider(resolvedProvider: ProviderAst) {\n  const /**
@param {?} */ providerValueExpressions =\n    resolvedProvider.providers.map((provider) =>
this._getProviderValue(provider));\n  const /** @type {?} */ propName =
`_${tokenName(resolvedProvider.token)}_${this._instances.size}`;\n  const /** @type {?} */ instance =
this._createProviderProperty(\n    propName, resolvedProvider, providerValueExpressions,
resolvedProvider.multiProvider,\n    resolvedProvider.eager);\n  if
(resolvedProvider.lifecycleHooks.indexOf(LifecycleHooks.OnDestroy) !== -1) {\n
this._destroyStmts.push(instance.callMethod('ngOnDestroy', []).toStmt());\n  }\n
this._tokens.push(resolvedProvider.token);\n  this._instances.set(tokenReference(resolvedProvider.token),
instance);\n }\n  /**\n * @return ?\n * ^\nbuild(): o.ClassStmt {\n  const /** @type {?} */ getMethodStmts:
o.Statement[] = this._tokens.map((token) => {\n    const /** @type {?} */ providerExpr =
this._instances.get(tokenReference(token));\n    return new o.IfStmt(\n
InjectMethodVars.token.identical(createDiTokenExpression(token)),\n    [new
o.ReturnStatement(providerExpr)];\n  });\n  const /** @type {?} */ methods = [\n    new o.ClassMethod(\n
'createInternal', [], this._createStmts.concat(new o.ReturnStatement(\n
this._instances.get(this._ngModuleMeta.type.reference))),\n    o.importType(this._ngModuleMeta.type)),\n
new o.ClassMethod(\n    'getInternal',\n    [\n      new o.FnParam(InjectMethodVars.token.name,
o.DYNAMIC_TYPE),\n      new o.FnParam(InjectMethodVars.notFoundResult.name, o.DYNAMIC_TYPE)\n    ],\n
getMethodStmts.concat([new o.ReturnStatement(InjectMethodVars.notFoundResult)]),\n
o.DYNAMIC_TYPE),\n    new o.ClassMethod('destroyInternal', [], this._destroyStmts),\n  ];\n  const /**

```



```

*\n_InjectorBuilder.prototype._sourceSpan;\n}\n\n\nclass InjectorProps {\n static parent =
o.THIS_EXPR.prop('parent');\n}\n\n\nfunction InjectorProps_tsickle_Closure_declarations() {\n /** @type {?}
*\nInjectorProps.parent;\n}\n\n\n\nclass InjectMethodVars {\n static token = o.variable('token');\n static
notFoundResult = o.variable('notFoundResult');\n}\n\n\nfunction InjectMethodVars_tsickle_Closure_declarations()
{\n /** @type {?} *\nInjectMethodVars.token;\n /** @type {?}
*\nInjectMethodVars.notFoundResult;\n}\n\n\n\ninterface DecoratorInvocation {\n type: Function;\n args?:
any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/ng_module_compiler.js.map
No license file was found, but licenses were detected in source scan.

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@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
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"EXPANSION_FORM_END";\nTokenType[TokenType.EOF] = "EOF";\n\n\nexport class Token {\n/**\n *
@param {?} type\n * @param {?} parts\n * @param {?} sourceSpan\n * ^\nconstructor(public type:
TokenType,\npublic parts: string[],\npublic sourceSpan: ParseSourceSpan) {} }\n\n\nfunction
Token_tsickle_Closure_declarations() {\n/** @type {?} */\nToken.prototype.type;\n/** @type {?}
*/\nToken.prototype.parts;\n/** @type {?} */\nToken.prototype.sourceSpan;\n}\n\n\nexport class TokenError
extends ParseError {\n/**\n * @param {?} errorMsg\n * @param {?} tokenType\n * @param {?} span\n
*/\nconstructor(errorMsg: string,\npublic tokenType: TokenType, span: ParseSourceSpan) {\n super(span,
errorMsg);\n }\n}\n\n\nfunction TokenError_tsickle_Closure_declarations() {\n/** @type {?}
*/\nTokenError.prototype.tokenType;\n}\n\n\nexport class TokenizeResult {\n/**\n * @param {?} tokens\n *
@param {?} errors\n * ^\nconstructor(public tokens: Token[],\npublic errors: TokenError[]) {} }\n\n\nfunction
TokenizeResult_tsickle_Closure_declarations() {\n/** @type {?} */\nTokenizeResult.prototype.tokens;\n/**
@type {?} */\nTokenizeResult.prototype.errors;\n}\n\n\n/**\n * @param {?} source\n * @param {?} url\n * @param
{?} getTagDefinition\n * @param {?=} tokenizeExpansionForms\n * @param {?=} interpolationConfig\n *
@return {?} */\n * ^\nexport function tokenize(\n source: string, url: string, getTagDefinition: (tagName: string) =>
TagDefinition,\n tokenizeExpansionForms: boolean = false,\n interpolationConfig: InterpolationConfig =
DEFAULT_INTERPOLATION_CONFIG): TokenizeResult {\n return new _Tokenizer(\n new
ParseSourceFile(source, url), getTagDefinition, tokenizeExpansionForms,\n interpolationConfig)\n
.tokenize();\n}\n\n\nconst /** @type {?} */ _CR_OR_CRLF_REGEXP = /\r\n?/g;\n/**\n * @param {?} charCode\n
* @return {?} */\n * ^\nfunction _unexpectedCharacterErrorMsg(charCode: number): string {\n const /** @type {?}
*/\n * / char = charCode === chars.$EOF ? 'EOF' : String.fromCharCode(charCode);\n return `Unexpected character
"${char}"`;\n}\n\n\n/**\n * @param {?} entitySrc\n * @return {?} */\n * ^\nfunction
_unknownEntityErrorMsg(entitySrc: string): string {\n return `Unknown entity "${entitySrc}" - use the
"<decimal>" or "<hex>" syntax`;\n}\n\n\n\nclass _ControlFlowError {\n/**\n * @param {?} error\n
*/\nconstructor(public error: TokenError) {} }\n\n\nfunction _ControlFlowError_tsickle_Closure_declarations() {\n
/** @type {?} */\n * ^\n_ControlFlowError.prototype.error;\n}\n\n\n// See
http://www.w3.org/TR/html51/syntax.html#writing\n\nclass _Tokenizer {\nprivate _input: string;\nprivate _length:
number;\nprivate _peek: number = -1;\nprivate _nextPeek: number = -1;\nprivate _index: number = -1;\nprivate
_line: number = 0;\nprivate _column: number = -1;\nprivate _currentTokenStart: ParseLocation;\nprivate
_currentTokenType: TokenType;\nprivate _expansionCaseStack: TokenType[] = [];\nprivate _inInterpolation:
boolean = false;\n\n tokens: Token[] = [];\n errors: TokenError[] = [];\n/**\n * @param {?} _file The html
source\n * @param {?} _getTagDefinition\n * @param {?} _tokenizeIcu Whether to tokenize ICU messages
(considered as text nodes when false)\n * @param {?=} _interpolationConfig\n * ^\nconstructor(\nprivate _file:
ParseSourceFile,\nprivate _getTagDefinition: (tagName: string) => TagDefinition,\nprivate _tokenizeIcu:
boolean,\nprivate _interpolationConfig: InterpolationConfig = DEFAULT_INTERPOLATION_CONFIG) {\n
this._input = _file.content;\n this._length = _file.content.length;\n this._advance();\n }\n/**\n * @param {?}
content\n * @return {?} */\n * ^\nprivate _processCarriageReturns(content: string): string {\n //
http://www.w3.org/TR/html5/syntax.html#preprocessing-the-input-stream\n // In order to keep the original
position in the source, we can not\n // pre-process it.\n // Instead CRs are processed right before instantiating the
tokens.\n return content.replace(_CR_OR_CRLF_REGEXP, "\\n");\n }\n/**\n * @return {?} */\n * ^\ntokenize():
TokenizeResult {\n while (this._peek !== chars.$EOF) {\n const /** @type {?} */ / start = this._getLocation();\n
try {\n if (this._attemptCharCode(chars.$LT)) {\n if (this._attemptCharCode(chars.$BANG)) {\n
if (this._attemptCharCode(chars.$LBACKET)) {\n this._consumeCdata(start);\n } else if
(this._attemptCharCode(chars.$MINUS)) {\n this._consumeComment(start);\n } else {\n
this._consumeDocType(start);\n } }\n } else if (this._attemptCharCode(chars.$SLASH)) {\n

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{?} predicate\n * @return {?}\n *\nprivate _attemptCharCodeUntilFn(predicate: (code: number) => boolean) {\n
while (!predicate(this._peek)) {\n  this._advance();\n } }\n }\n *\n *\n @param {?} predicate\n * @param {?}
len\n * @return {?}\n *\nprivate _requireCharCodeUntilFn(predicate: (code: number) => boolean, len: number) {\n
  const /** @type {?} */ start = this._getLocation();\n  this._attemptCharCodeUntilFn(predicate);\n  if
(this._index - start.offset < len) {\n    throw this._createError(\n      _unexpectedCharacterErrorMsg(this._peek),
this._getSpan(start, start));\n  }\n }\n }\n *\n *\n @param {?} char\n * @return {?}\n *\nprivate
_attemptUntilChar(char: number) {\n  while (this._peek !== char) {\n    this._advance();\n  }\n }\n }\n *\n *\n
@param {?} decodeEntities\n * @return {?}\n *\nprivate _readChar(decodeEntities: boolean): string {\n  if
(decodeEntities && this._peek === chars.$AMPERSAND) {\n    return this._decodeEntity();\n  } else {\n
const /** @type {?} */ index = this._index;\n    this._advance();\n    return this._input[index];\n  }\n }\n }\n *\n *\n
@return {?}\n *\nprivate _decodeEntity(): string {\n  const /** @type {?} */ start = this._getLocation();\n
this._advance();\n  if (this._attemptCharCode(chars.$HASH)) {\n    const /** @type {?} */ isHex =
this._attemptCharCode(chars.$x) || this._attemptCharCode(chars.$X);\n    const /** @type {?} */ numberStart =
this._getLocation().offset;\n    this._attemptCharCodeUntilFn(isDigitEntityEnd);\n    if (this._peek !=
chars.$SEMICOLON) {\n      throw this._createError(_unexpectedCharacterErrorMsg(this._peek),
this._getSpan());\n    }\n    this._advance();\n    const /** @type {?} */ strNum =
this._input.substring(numberStart, this._index - 1);\n    try {\n      const /** @type {?} */ charCode =
parseInt(strNum, isHex ? 16 : 10);\n      return String.fromCharCode(charCode);\n    } catch (/** @type {?} */ e)
{\n      const /** @type {?} */ entity = this._input.substring(start.offset + 1, this._index - 1);\n      throw
this._createError(_unknownEntityErrorMsg(entity), this._getSpan(start));\n    }\n  } else {\n    const /** @type
{?} */ startPosition = this._savePosition();\n    this._attemptCharCodeUntilFn(isNamedEntityEnd);\n    if
(this._peek != chars.$SEMICOLON) {\n      this._restorePosition(startPosition);\n      return '&';\n    }\n
this._advance();\n    const /** @type {?} */ name = this._input.substring(start.offset + 1, this._index - 1);\n
const /** @type {?} */ char = NAMED_ENTITIES[name];\n    if (!char) {\n      throw
this._createError(_unknownEntityErrorMsg(name), this._getSpan(start));\n    }\n    return char;\n  }\n }\n }\n *\n
@param {?} decodeEntities\n * @param {?} firstCharOfEnd\n * @param {?} attemptEndRest\n * @return {?}\n
*\nprivate _consumeRawText(\n  decodeEntities: boolean, firstCharOfEnd: number, attemptEndRest: () =>
boolean): Token {\n  let /** @type {?} */ tagCloseStart: ParseLocation;\n  const /** @type {?} */ textStart =
this._getLocation();\n  this._beginToken(decodeEntities ? TokenType.ESCAPABLE_RAW_TEXT :
TokenType.RAW_TEXT, textStart);\n  const /** @type {?} */ parts: string[] = [];\n  while (true) {\n
tagCloseStart = this._getLocation();\n  if (this._attemptCharCode(firstCharOfEnd) && attemptEndRest()) {\n
break;\n  }\n  if (this._index > tagCloseStart.offset) {\n    // add the characters consumed by the previous if
statement to the output\n    parts.push(this._input.substring(tagCloseStart.offset, this._index));\n  }\n  while
(this._peek !== firstCharOfEnd) {\n    parts.push(this._readChar(decodeEntities));\n  }\n }\n return
this._endToken([this._processCarriageReturns(parts.join("")), tagCloseStart);\n }\n }\n *\n *\n
@param {?} start\n *
@return {?}\n *\nprivate _consumeComment(start: ParseLocation) {\n
this._beginToken(TokenType.COMMENT_START, start);\n  this._requireCharCode(chars.$MINUS);\n
this._endToken([]);\n  const /** @type {?} */ textToken = this._consumeRawText(false, chars.$MINUS, () =>
this._attemptStr('>'));\n  this._beginToken(TokenType.COMMENT_END, textToken.sourceSpan.end);\n
this._endToken([]);\n }\n }\n *\n *\n @param {?} start\n * @return {?}\n *\nprivate _consumeCdata(start:
ParseLocation) {\n  this._beginToken(TokenType.CDATA_START, start);\n  this._requireStr('CDATA(');\n
this._endToken([]);\n  const /** @type {?} */ textToken = this._consumeRawText(false, chars.$RBRACKET, ()
=> this._attemptStr(']>'));\n  this._beginToken(TokenType.CDATA_END, textToken.sourceSpan.end);\n
this._endToken([]);\n }\n }\n *\n *\n @param {?} start\n * @return {?}\n *\nprivate _consumeDocType(start:
ParseLocation) {\n  this._beginToken(TokenType.DOC_TYPE, start);\n  this._attemptUntilChar(chars.$GT);\n
this._advance();\n  this._endToken([this._input.substring(start.offset + 2, this._index - 1)];\n }\n }\n *\n
@return
{?}\n *\nprivate _consumePrefixAndName(): string[] {\n  const /** @type {?} */ nameOrPrefixStart =
this._index;\n  let /** @type {?} */ prefix: string = null;\n  while (this._peek !== chars.$COLON &&

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!isPrefixEnd(this._peek)) {\n  this._advance();\n } \n let /** @type {?} */ nameStart: number;\n if
(this._peek === chars.$COLON) {\n  this._advance();\n  prefix = this._input.substring(nameOrPrefixStart,
this._index - 1);\n  nameStart = this._index;\n } else {\n  nameStart = nameOrPrefixStart;\n } \n
this._requireCharCodeUntilFn(isNameEnd, this._index === nameStart ? 1 : 0);\n  const /** @type {?} */ name =
this._input.substring(nameStart, this._index);\n  return [prefix, name];\n } \n /**\n * @param {?} start\n * @return
{?}\n */\n private _consumeTagOpen(start: ParseLocation) {\n  const /** @type {?} */ savedPos =
this._savePosition();\n  let /** @type {?} */ tagName: string;\n  let /** @type {?} */ lowercaseTagName:
string;\n  try {\n    if (!chars.isAsciiLetter(this._peek)) {\n      throw
this._createError(_unexpectedCharacterErrorMsg(this._peek), this._getSpan());\n    } \n    const /** @type {?} */
nameStart = this._index;\n    this._consumeTagOpenStart(start);\n    tagName = this._input.substring(nameStart,
this._index);\n    lowercaseTagName = tagName.toLowerCase();\n    this._attemptCharCodeUntilFn(isNotWhitespace);\n    while (this._peek !== chars.$SLASH && this._peek !==
chars.$GT) {\n      this._consumeAttributeName();\n      this._attemptCharCodeUntilFn(isNotWhitespace);\n      if (this._attemptCharCode(chars.$EQ)) {\n        this._attemptCharCodeUntilFn(isNotWhitespace);\n        this._consumeAttributeValue();\n      } \n      this._attemptCharCodeUntilFn(isNotWhitespace);\n    } \n    this._consumeTagOpenEnd();\n  } catch ( /** @type {?} */ e) {\n    if (e instanceof _ControlFlowError) {\n      //
When the start tag is invalid, assume we want a '<'\n      this._restorePosition(savedPos);\n      // Back to back
text tokens are merged at the end\n      this._beginToken(TokenType.TEXT, start);\n      this._endToken(['<']);\n      return;\n    } \n    throw e;\n  } \n    const /** @type {?} */ contentTokenType =
this._getTagDefinition(tagName).contentType;\n    if (contentTokenType === TagContentType.RAW_TEXT) {\n      this._consumeRawTextWithTagClose(lowercaseTagName, false);\n    } else if (contentTokenType ===
TagContentType.ESCAPABLE_RAW_TEXT) {\n      this._consumeRawTextWithTagClose(lowercaseTagName,
true);\n    } \n } \n /**\n * @param {?} lowercaseTagName\n * @param {?} decodeEntities\n * @return {?}\n */\n private _consumeRawTextWithTagClose(lowercaseTagName: string, decodeEntities: boolean) {\n  const /**
@type {?} */ textToken = this._consumeRawText(decodeEntities, chars.$LT, () => {\n    if
(!this._attemptCharCode(chars.$SLASH)) return false;\n    this._attemptCharCodeUntilFn(isNotWhitespace);\n    if (!this._attemptStrCaseInsensitive(lowercaseTagName)) return false;\n    this._attemptCharCodeUntilFn(isNotWhitespace);\n    return this._attemptCharCode(chars.$GT);\n  });\n  this._beginToken(TokenType.TAG_CLOSE, textToken.sourceSpan.end);\n  this._endToken([null,
lowercaseTagName]);\n } \n /**\n * @param {?} start\n * @return {?}\n */\n private _consumeTagOpenStart(start:
ParseLocation) {\n  this._beginToken(TokenType.TAG_OPEN_START, start);\n  const /** @type {?} */ parts =
this._consumePrefixAndName();\n  this._endToken(parts);\n } \n /**\n * @return {?}\n */\n private
_consumeAttributeName() {\n  this._beginToken(TokenType.ATTR_NAME);\n  const /** @type {?} */
prefixAndName = this._consumePrefixAndName();\n  this._endToken(prefixAndName);\n } \n /**\n * @return
{?}\n */\n private _consumeAttributeValue() {\n  this._beginToken(TokenType.ATTR_VALUE);\n  let /** @type
{?} */ value: string;\n  if (this._peek === chars.$SQ || this._peek === chars.$DQ) {\n    const /** @type {?} */
quoteChar = this._peek;\n    this._advance();\n    const /** @type {?} */ parts: string[] = [];\n    while (this._peek
!== quoteChar) {\n      parts.push(this._readChar(true));\n    } \n    value = parts.join("");\n    this._advance();\n  } else {\n    const /** @type {?} */ valueStart = this._index;\n    this._requireCharCodeUntilFn(isNameEnd, 1);\n    value = this._input.substring(valueStart, this._index);\n  } \n
this._endToken([this._processCarriageReturns(value)];\n } \n /**\n * @return {?}\n */\n private
_consumeTagOpenEnd() {\n  const /** @type {?} */ tokenType =\n    this._attemptCharCode(chars.$SLASH) ?
TokenType.TAG_OPEN_END_VOID : TokenType.TAG_OPEN_END;\n  this._beginToken(tokenType);\n  this._requireCharCode(chars.$GT);\n  this._endToken([]);\n } \n /**\n * @param {?} start\n * @return {?}\n */\n private
_consumeTagClose(start: ParseLocation) {\n  this._beginToken(TokenType.TAG_CLOSE, start);\n  this._attemptCharCodeUntilFn(isNotWhitespace);\n  const /** @type {?} */ prefixAndName =
this._consumePrefixAndName();\n  this._attemptCharCodeUntilFn(isNotWhitespace);\n  this._requireCharCode(chars.$GT);\n  this._endToken(prefixAndName);\n } \n /**\n * @return {?}\n */\n private

```



```

@type {?} *^n_Tokenizer.prototype._input;\n/** @type {?} *^n_Tokenizer.prototype._length;\n/** @type {?}
*^n_Tokenizer.prototype._peek;\n/** @type {?} *^n_Tokenizer.prototype._nextPeek;\n/** @type {?}
*^n_Tokenizer.prototype._index;\n/** @type {?} *^n_Tokenizer.prototype._line;\n/** @type {?}
*^n_Tokenizer.prototype._column;\n/** @type {?} *^n_Tokenizer.prototype._currentTokenStart;\n/** @type {?}
*^n_Tokenizer.prototype._currentTokenType;\n/** @type {?} *^n_Tokenizer.prototype._expansionCaseStack;\n
/** @type {?} *^n_Tokenizer.prototype._inInterpolation;\n/** @type {?} *^n_Tokenizer.prototype.tokens;\n/**
@type {?} *^n_Tokenizer.prototype.errors;\n/** @type {?} *^n_Tokenizer.prototype._file;\n/** @type {?}
*^n_Tokenizer.prototype._getTagDefinition;\n/** @type {?} *^n_Tokenizer.prototype._tokenizeIcu;\n/** @type
{?} *^n_Tokenizer.prototype._interpolationConfig;\n}\n\n/**\n * @param {?} code\n * @return {?} \n *\nfunction
isNotWhitespace(code: number): boolean {\n return !chars.isWhitespace(code) || code === chars.$EOF;\n}\n\n/**\n *
@param {?} code\n * @return {?} \n *\nfunction isNameEnd(code: number): boolean {\n return
chars.isWhitespace(code) || code === chars.$GT || code === chars.$SLASH ||\n code === chars.$SQ || code ===
chars.$DQ || code === chars.$EQ;\n}\n\n/**\n * @param {?} code\n * @return {?} \n *\nfunction isPrefixEnd(code:
number): boolean {\n return (code < chars.$a || chars.$z < code) && (code < chars.$A || chars.$Z < code) &&\n
(code < chars.$0 || code > chars.$9);\n}\n\n/**\n * @param {?} code\n * @return {?} \n *\nfunction
isDigitEntityEnd(code: number): boolean {\n return code == chars.$SEMICOLON || code == chars.$EOF ||
!chars.isAsciiHexDigit(code);\n}\n\n/**\n * @param {?} code\n * @return {?} \n *\nfunction
isNamedEntityEnd(code: number): boolean {\n return code == chars.$SEMICOLON || code == chars.$EOF ||
!chars.isAsciiLetter(code);\n}\n\n/**\n * @param {?} input\n * @param {?} offset\n * @param {?}
interpolationConfig\n * @return {?} \n *\nfunction isExpansionFormStart(\n input: string, offset: number,
interpolationConfig: InterpolationConfig): boolean {\n const /** @type {?} */ isInterpolationStart =\n
interpolationConfig ? input.indexOf(interpolationConfig.start, offset) == offset : false;\n\n return
input.charCodeAt(offset) == chars.$LBRACE && !isInterpolationStart;\n}\n\n/**\n * @param {?} peek\n * @return
{?} \n *\nfunction isExpansionCaseStart(peek: number): boolean {\n return peek === chars.$EQ ||
chars.isAsciiLetter(peek);\n}\n\n/**\n * @param {?} code1\n * @param {?} code2\n * @return {?} \n *\nfunction
compareCharCodeCaseInsensitive(code1: number, code2: number): boolean {\n return
toUpperCaseCharCode(code1) == toUpperCaseCharCode(code2);\n}\n\n/**\n * @param {?} code\n * @return {?} \n
*\nfunction toUpperCaseCharCode(code: number): number {\n return code >= chars.$a && code <= chars.$z ?
code - chars.$a + chars.$A : code;\n}\n\n/**\n * @param {?} srcTokens\n * @return {?} \n *\nfunction
mergeTextTokens(srcTokens: Token[]): Token[] {\n const /** @type {?} */ dstTokens: Token[] = [];\n let /**
@type {?} */ lastDstToken: Token;\n for (let /** @type {?} */ i = 0; i < srcTokens.length; i++) {\n const /**
@type {?} */ token = srcTokens[i];\n if (lastDstToken && lastDstToken.type == TokenType.TEXT &&
token.type == TokenType.TEXT) {\n lastDstToken.parts[0] += token.parts[0];\n
lastDstToken.sourceSpan.end = token.sourceSpan.end;\n } else {\n lastDstToken = token;\n
dstTokens.push(lastDstToken);\n }\n }\n\n return dstTokens;\n}\n\ninterface DecoratorInvocation {\n type:
Function;\n args?: any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/ml\_parser/lexer.js.map

No license file was found, but licenses were detected in source scan.

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E,wBAAwB,EAAE,QAAQ,EAAE,cAAc,CAAC,CAAC;YACtF,sBAAsB,CACIB,YAAy,EAAE,wBAAwB,EAAE,  
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C,YAAy,EAAE,QAAQ;YAC5C,IAAM,gBAAgB,CAAC,iBAaiB,GAAG,cAAc,CAAC,SAAS,CAAC,GAAG,CA  
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AC3C,cAAc,CAAC,wBAAwB,CAAC,GAAG,CAAC,YAAy,CAAC,SAAS,CAAC,IAAI,CAAC,SAAS,CAAC,CA  
AC;YACvF,mBAAmB,CAAC,YAAy,EAAE,wBAAwB,EAAE,QAAQ,EAAE,cAAc,CAAC,CAAC;YAEtF,2CAA  
2C,CACvC,YAAy,CAAC,SAAS,EAAE,iBAaiB,EAAE,cAAc,CAAC,CAAC;YAC/D,wCAAwC,CACpC,YAAy,  
CAAC,SAAS,EAAE,iBAaiB,EAAE,cAAc,CAAC,CAAC;YAC/D,sCAAsC,CACIC,YAAy,EAAE,wBAAwB,EA  
AE,cAAc,CAAC,CAAC;QAC9D,CAAC,CAAC,CAAC;QACH,GAAG,CAAC,SAAS,CAAC,OAAO,CAAC,UAA  
C,WAaw;YACHC,IAAM,gBAAgB,CAAC,gBAAgB,GAAG,cAAc,CAAC,SAAS,CAAC,GAAG,CAAC,cAAc,CA  
AC,WAaw,CAAC,KAAK,CAAC,CAAC,CAAC;YAC1G,uCAAuC,CAAC,WAaw,EAAE,gBAAgB,EAAE,cAA  
c,CAAC,CAAC;QACzF,CAAC,CAAC,CAAC;QACH,QAAQ,CAAC,cAAc,CAAC,YAAy,EAAE,GAAG,CAAC,  
QAAQ,EAAE,IAAI,CAAC,eAAe,CAAC,CAAC;QACIE,MAAM,CAAC,IAAI,CAAC;IACd,CAAC;IACH;;;OAI  
G;IACH,qCAAS,GAAT,UAAU,GAAY,EAAE,GAAQ,IAAS,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;IACvD;;  
;OAIG;IACH,0CAAc,GAAd,UAAe,GAaiB,EAAE,GAAQ,IAAS,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;IA  
CjE;;;OAIG;IACH,sCAAU,GAAV,UAAW,GAakB,EAAE,mBAA+C;QACIE,MAAM,CAAC,IAAI,CAAC;IACd  
,CAAC;IACH;;;OAIG;IACH,0CAAc,GAAd,UAAe,GAaiB,EAAE,GAAQ,IAAS,MAAM,CAAC,IAAI,CAAC,CA  
AC,CAAC;IACjE;;;OAIG;IACH,yCAAa,GAAb,UAAc,GAAG,EAAE,GAAQ,IAAS,MAAM,CAAC,IAAI,CAA



```

bindInjectableDestroyLifecycleCallbacks(providerAst, providerInstance, compileElement);\n });\n return null;\n
}\n/**\n * @param {?} ast\n * @param {?} parent\n * @return {?}\n */\nvisitEmbeddedTemplate(ast:
EmbeddedTemplateAst, parent: CompileElement): any {\n  const /** @type {?} */ compileElement = /** @type
{?} */(( <CompileElement>this.view.nodes[this._nodeIndex++]));\n  bindOutputs(ast.outputs, ast.directives,
compileElement, false);\n  ast.directives.forEach((directiveAst, dirIndex) => {\n    const /** @type {?} */
directiveInstance = compileElement.instances.get(directiveAst.directive.type.reference);\n    const /** @type {?}
*/ directiveWrapperInstance =\n
compileElement.directiveWrapperInstance.get(directiveAst.directive.type.reference);\n
bindDirectiveInputs(directiveAst, directiveWrapperInstance, dirIndex, compileElement);\n\n
bindDirectiveAfterContentLifecycleCallbacks(\n  directiveAst.directive, directiveInstance, compileElement);\n
  bindDirectiveAfterViewLifecycleCallbacks(\n  directiveAst.directive, directiveInstance, compileElement);\n
  bindDirectiveWrapperLifecycleCallbacks(\n  directiveAst, directiveWrapperInstance, compileElement);\n
});\n  ast.providers.forEach((providerAst) => {\n    const /** @type {?} */ providerInstance =
compileElement.instances.get(tokenReference(providerAst.token));\n
bindInjectableDestroyLifecycleCallbacks(providerAst, providerInstance, compileElement);\n  });\n
bindView(compileElement.embeddedView, ast.children, this._schemaRegistry);\n return null;\n }\n/**\n *
@param {?} ast\n * @param {?} ctx\n * @return {?}\n */\nvisitAttr(ast: AttrAst, ctx: any): any { return null;
}\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\nvisitDirective(ast: DirectiveAst, ctx: any):
any { return null; }\n/**\n * @param {?} ast\n * @param {?} eventTargetAndNames\n * @return {?}\n */\n
visitEvent(ast: BoundEventAst, eventTargetAndNames: Map<string, BoundEventAst>): any {\n  return null;\n
}\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\nvisitReference(ast: ReferenceAst, ctx: any):
any { return null; }\n/**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\nvisitVariable(ast:
VariableAst, ctx: any): any { return null; }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n
*/\nvisitDirectiveProperty(ast: BoundDirectivePropertyAst, context: any): any { return null; }\n/**\n * @param
{?} context\n * @return {?}\n */\nvisitElementProperty(ast: BoundElementPropertyAst, context:
any): any { return null; }\n}\n\nfunction ViewBinderVisitor_tsickle_Closure_declarations() {\n  /** @type {?}
*/\n  /**\n * @param {?} */\n * @return {?}\n */\n  /**\n * @param {?} */\n * @return {?}\n */\n  /**\n * @param
{?} */\n * @return {?}\n */\n  /**\n * @param {?} */\n * @return {?}\n */\n  /**\n * @param {?} */\n * @return
{?}\n */\n  /**\n * @param {?} */\n * @return {?}\n */\n  /**\n * @param {?} */\n * @return {?}\n */\n  /**\n *
@param {?} */\n * @return {?}\n */\n  /**\n * @param {?} */\n * @return {?}\n */\n  /**\n * @param {?} */\n *
@return {?}\n */\n  /**\n * @param {?} */\n * @return {?}\n */\n  /**\n * @param {?} */\n * @return {?}\n */\n
}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/view_binder.js.map

```

No license file was found, but licenses were detected in source scan.

```

{"version":3,"file":"compiler_host.js","sourceRoot":"","sources":["../../../../modules/@angular/compiler/src/aot/co
mpiler_host.ts"],"names":[],"mappings":"AAAA;:::;GAMG","sourcesContent":["/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nimport {ImportResolver} from
'./output/path_util';\n\nimport {StaticSymbol} from './static_symbol';\n\nimport {StaticSymbolResolverHost} from
'./static_symbol_resolver';\n\nimport {AotSummaryResolverHost} from './summary_resolver';\n\nimport
{AotSummarySerializerHost} from './summary_serializer';\n\n/**\n * The host of the AotCompiler disconnects the
implementation from TypeScript / other language\n * services and from underlying file systems.\n */\n\nexport
interface AotCompilerHost extends StaticSymbolResolverHost, ImportResolver,\n  AotSummaryResolverHost,
  AotSummarySerializerHost {\n  /**\n * Loads a resource (e.g. html / css)\n */\n  loadResource(path: string):
Promise<string>;\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n}

```

Found in path(s):





AC,GAAG,UAAU,CAAC;AACvD,eAAe,CAAC,eAAe,CAAC,MAAM,CAAC,GAAG,QAAQ,CAAC;AACnD,eA  
Ae,CAAC,eAAe,CAAC,IAAI,CAAC,GAAG,MAAM,CAAC;AAC/C,eAAe,CAAC,eAAe,CAAC,IAAI,CAAC,GA  
AG,MAAM,CAAC;AAC/C,eAAe,CAAC,eAAe,CAAC,SAAS,CAAC,GAAG,WAAW,CAAC;AACzD,eAAe,CAA  
C,eAAe,CAAC,QAAQ,CAAC,GAAG,UAAU,CAAC;AAEvD;;;;;;;GAcG;AACH,gBAAgB,GAAW;IACzB,M  
AAM,CAAC,GAAG,CAAC,KAAK,CAAC,QAAQ,CAAC,CAAC;AAC7B,CAAC;AACD;;;;;GAMG;AACH,4BA  
A4B,IAAY;IACtC,EAAE,CAAC,CAAC,IAAI,IAAI,GAAG,CAAC;QAAC,MAAM,CAAC,GAAG,CAAC;IAE5B,  
IAAM,gBAAgB,CAAC,YAAY,GAAG,IAAI,CAAC,CAAC,CAAC,IAAI,GAAG,GAAG,GAAG,GAAG,EAAE,C  
AAC;IACHe,IAAM,gBAAgB,CAAC,aAAa,GAAG,IAAI,CAAC,IAAI,CAAC,MAAM,GAAG,CAAC,CAAC,KAA  
K,GAAG,GAAG,GAAG,GAAG,EAAE,CAAC;IACHf,IAAM,gBAAgB,CAAC,QAAQ,GAAG,IAAI,CAAC,KAA  
K,CAAC,GAAG,CAAC,CAAC;IAEID,IAAM,gBAAgB,CAAC,GAAG,GAAa,EAAE,CAAC;IAC1C,IAAI,gBAAg  
B,CAAC,EAAE,GAAG,CAAC,CAAC;IAC5B,GAAG,CAAC,CAAC,IAAI,gBAAgB,CAAC,GAAG,GAAG,CAA  
C,EAAE,GAAG,GAAG,QAAQ,CAAC,MAAM,EAAE,GAAG,EAAE,EAAE,CAAC;QACHe,IAAM,gBAAgB,CA  
AC,OAAO,GAAG,QAAQ,CAAC,GAAG,CAAC,CAAC;QAC/C,MAAM,CAAC,CAAC,OAAO,CAAC,CAAC,CA  
AC;YACHb,KAAK,EAAE,CAAC;YACR,KAAK,GAAG;gBACN,KAAK,CAAC;YACR,KAAK,IAAI;gBACP,EA  
AE,CAAC,CAAC,GAAG,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC,CAAC;oBACnB,GAAG,CAAC,GAAG,E  
AAE,CAAC;gBACZ,CAAC;gBAAC,IAAI,CAAC,CAAC;oBACN,EAAE,EAAE,CAAC;gBACP,CAAC;gBACD,  
KAAK,CAAC;YACR;gBACE,GAAG,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC;QACtB,CAAC;IACH,CAAC;IA  
ED,EAAE,CAAC,CAAC,YAAY,IAAI,EAAE,CAAC,CAAC,CAAC;QACvB,OAAO,EAAE,EAAE,GAAG,CAAC,  
EAAE,CAAC;YACHb,GAAG,CAAC,OAAO,CAAC,IAAI,CAAC,CAAC;QACpB,CAAC;QAED,EAAE,CAAC,C  
AAC,GAAG,CAAC,MAAM,KAAK,CAAC,CAAC;YAAC,GAAG,CAAC,IAAI,CAAC,GAAG,CAAC,CAAC;IA  
CtC,CAAC;IAED,MAAM,CAAC,YAAY,GAAG,GAAG,CAAC,IAAI,CAAC,GAAG,CAAC,GAAG,aAAa,CAAC  
;AACtD,CAAC;AACD;;;;;GAKG;AACH,kCAAKC,KAAy;IAC5C,IAAI,gBAAgB,CAAC,IAAI,GAAG,KAAK,C  
AAC,eAAe,CAAC,IAAI,CAAC,CAAC;IACxD,IAAI,GAAG,OAAO,CAAC,IAAI,CAAC,GAAG,EAAE,GAAG,k  
BAAKB,CAAC,IAAI,CAAC,CAAC;IACrD,KAAK,CAAC,eAAe,CAAC,IAAI,CAAC,GAAG,IAAI,CAAC;IAEnC  
,MAAM,CAAC,sBAAsB,CACzB,KAAK,CAAC,eAAe,CAAC,MAAM,CAAC,EAAE,KAAK,CAAC,eAAe,CAAC  
,QAAQ,CAAC,EAAE,KAAK,CAAC,eAAe,CAAC,MAAM,CAAC,EAC7F,KAAK,CAAC,eAAe,CAAC,IAAI,CA  
AC,EAAE,IAAI,EAAE,KAAK,CAAC,eAAe,CAAC,SAAS,CAAC,EACnE,KAAK,CAAC,eAAe,CAAC,QAAQ,C  
AAC,CAAC,CAAC;AACvC,CAAC;AACD;;;;;GAKG;AACH,qBAaqB,IAAY,EAAE,GAAW;IAC5C,IAAM,gBA  
AgB,CAAC,KAAK,GAAG,MAAM,CAAC,SAAS,CAAC,GAAG,CAAC,CAAC,CAAC;IACtD,IAAM,gBAAgB,C  
AAC,SAAS,GAAG,MAAM,CAAC,IAAI,CAAC,CAAC;IAEhD,EAAE,CAAC,CAAC,SAAS,CAAC,KAAK,CAA  
C,eAAe,CAAC,MAAM,CAAC,CAAC,CAAC,CAAC,CAAC;QAC7C,MAAM,CAAC,wBAawB,CAAC,KAAK,C  
AAC,CAAC;IACzC,CAAC;IAAC,IAAI,CAAC,CAAC;QACN,KAAK,CAAC,eAAe,CAAC,MAAM,CAAC,GAA  
G,SAAS,CAAC,eAAe,CAAC,MAAM,CAAC,CAAC;IACpE,CAAC;IAED,GAAG,CAAC,CAAC,IAAI,gBAAgB,  
CAAC,CAAC,GAAG,eAAe,CAAC,MAAM,EAAE,CAAC,IAAI,eAAe,CAAC,IAAI,EAAE,CAAC,EAAE,EAAE,  
CAAC;QACrF,EAAE,CAAC,CAAC,OAAO,CAAC,KAAK,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;Y  
ACtB,KAAK,CAAC,CAAC,CAAC,GAAG,SAAS,CAAC,CAAC,CAAC,CAAC;QAC1B,CAAC;IACH,CAAC;IA  
ED,EAAE,CAAC,CAAC,KAAK,CAAC,eAAe,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC,IAAI,GAAG,CAAC,CA  
AC,CAAC;QAC1C,MAAM,CAAC,wBAawB,CAAC,KAAK,CAAC,CAAC;IACzC,CAAC;IAED,IAAI,gBAAgB,  
CAAC,IAAI,GAAG,SAAS,CAAC,eAAe,CAAC,IAAI,CAAC,CAAC;IAC5D,EAAE,CAAC,CAAC,OAAO,CAAC,  
IAAI,CAAC,CAAC;QAAC,IAAI,GAAG,GAAG,CAAC;IAC9B,IAAM,gBAAgB,CAAC,KAAK,GAAG,IAAI,CA  
AC,WAAW,CAAC,GAAG,CAAC,CAAC;IACrD,IAAI,GAAG,IAAI,CAAC,SAAS,CAAC,CAAC,EAAE,KAAK,  
GAAG,CAAC,CAAC,GAAG,KAAK,CAAC,eAAe,CAAC,IAAI,CAAC,CAAC;IACIE,KAAK,CAAC,eAAe,CAA  
C,IAAI,CAAC,GAAG,IAAI,CAAC;IACnC,MAAM,CAAC,wBAawB,CAAC,KAAK,CAAC,CAAC;AACzC,CA  
AC", "sourcesContent": ["/\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source  
code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*\n \*/\nimport {Inject, PACKAGE\_ROOT\_URL} from '@angular/core';\nimport {isBlank, isPresent} from  
'./facade/lang';\nimport {CompilerInjectable} from './injectable';\n/\*\*\n \* Create a { @link UrlResolver} with no  
package prefix.\n \* @return {?} \*/\nexport function createUrlResolverWithoutPackagePrefix(): UrlResolver {\n

```

return new UrlResolver();\n\n/**\n * @return {?} \n *\nexport function createOfflineCompileUrlResolver():
UrlResolver {\n return new UrlResolver('.');\n}\n\n/**\n * A default provider for {@link
PACKAGE_ROOT_URL} that maps to './.\n *\nexport var /** @type {?} */
DEFAULT_PACKAGE_URL_PROVIDER = {\n provide: PACKAGE_ROOT_URL,\n useValue: './\n};\n\n/**\n *
Used by the {@link Compiler} when resolving HTML and CSS template URLs.\n * \n * This class can be
overridden by the application developer to create custom behavior.\n * \n * See {@link Compiler}\n * \n * ##
Example\n * \n * {@example compiler/ts/url_resolver/url_resolver.ts region='url_resolver'}\n * \n * ensure that
the entire template comes from a trusted source.\n * Attacker-controlled data introduced by a template could expose
your\n * application to XSS risks. For more detail, see the [Security Guide](http://g.co/ng/security).\n
*\n*@CompilerInjectable()\nexport class UrlResolver {\n\n/**\n * @param {?=} _packagePrefix\n
*\nconstructor(\nprivate _packagePrefix: string = null) {\n\n/**\n * Resolves the `url` given the `baseUrl`:\n * -
when the `url` is null, the `baseUrl` is returned,\n * - if `url` is relative ('path/to/here', './path/to/here'), the resolved
url is a combination of\n * `baseUrl` and `url`,\n * - if `url` is absolute (it has a scheme: 'http://', 'https://' or start
with '/'), the `url` is\n * returned as is (ignoring the `baseUrl`)\n * @param {?} baseUrl\n * @param {?} url\n *
@return {?} \n *\nresolve(baseUrl: string, url: string): string {\n let /** @type {?} */ resolvedUrl = url;\n if
(isPresent(baseUrl) && baseUrl.length > 0) {\n resolvedUrl = _resolveUrl(baseUrl, resolvedUrl);\n }\n const
/** @type {?} */ resolvedParts = _split(resolvedUrl);\n let /** @type {?} */ prefix = this._packagePrefix;\n if
(isPresent(prefix) && isPresent(resolvedParts) &&\n resolvedParts[_ComponentIndex.Scheme] == 'package')
{\n let /** @type {?} */ path = resolvedParts[_ComponentIndex.Path];\n prefix = prefix.replace(/\\+$/, '');\n
path = path.replace(/^\|\\+/, '');\n return `${prefix}/${path}`;\n }\n return resolvedUrl;\n }\n\n/** @nocollapse
*\nstatic ctorParameters: () => ({type: any, decorators?: DecoratorInvocation[]|null})[] = () => [\n{type: undefined,
decorators: [{ type: Inject, args: [PACKAGE_ROOT_URL, ] }, ]},\n];\n}\n\nfunction
UrlResolver_tsickle_Closure_declarations() {\n\n/**\n * @nocollapse\n * @type {?} \n
*\nUrlResolver.ctorParameters;\n /** @type {?} *\nUrlResolver.prototype._packagePrefix;\n}\n\n/**\n * Extract
the scheme of a URL.\n * @param {?} url\n * @return {?} \n *\nexport function getUrlScheme(url: string): string
{\n const /** @type {?} */ match = _split(url);\n return (match && match[_ComponentIndex.Scheme]) ||
'';\n}\n\n/**\n * Builds a URI string from already-encoded parts.\n * \n * No encoding is performed. Any
component may be omitted as either null or\n * undefined.\n * \n * @param {?=} opt_scheme The scheme such
as 'http'.\n * @param {?=} opt_userInfo The user name before the '@'.\n * @param {?=} opt_domain The domain
such as 'www.google.com', already\n * URI-encoded.\n * @param {?=} opt_port The port number.\n * @param
{?=} opt_path The path, already URI-encoded. If it is not\n * empty, it must begin with a slash.\n * @param {?=}
opt_queryData The URI-encoded query data.\n * @param {?=} opt_fragment The URI-encoded fragment
identifier.\n * @return {?} The fully combined URI.\n *\nfunction _buildFromEncodedParts(\n opt_scheme?:
string, opt_userInfo?: string, opt_domain?: string, opt_port?: string,\n opt_path?: string, opt_queryData?: string,
opt_fragment?: string): string {\n const /** @type {?} */ out: string[] = [];\n\n if (isPresent(opt_scheme)) {\n
out.push(opt_scheme + ':');\n }\n\n if (isPresent(opt_domain)) {\n out.push('/');\n }\n\n if (isPresent(opt_userInfo))
{\n out.push(opt_userInfo + '@');\n }\n\n out.push(opt_domain);\n\n if (isPresent(opt_port)) {\n
out.push(': + opt_port);\n }\n }\n\n if (isPresent(opt_path)) {\n out.push(opt_path);\n }\n\n if
(isPresent(opt_queryData)) {\n out.push('? + opt_queryData);\n }\n\n if (isPresent(opt_fragment)) {\n
out.push('# + opt_fragment);\n }\n\n return out.join('');\n}\n\n/**\n * A regular expression for breaking a URI into
its component parts.\n * \n * {@link http://www.gbiv.com/protocols/uri/rfc/rfc3986.html#RFC2234} says\n * As the
"first-match-wins" algorithm is identical to the "greedy"\n * disambiguation method used by POSIX regular
expressions, it is natural and\n * commonplace to use a regular expression for parsing the potential five\n *
components of a URI reference.\n * \n * The following line is the regular expression for breaking-down a\n * well-
formed URI reference into its components.\n * \n * <pre>\n *
^(([^:/?#]+):)?(//([^/?#]*))?([^?#]*)(\\?([^#]*))?(#(.*))?\n * 12 3 4 5 6 7 8 9\n * </pre>\n * \n *
The numbers in the second line above are only to assist readability; they\n * indicate the reference points for each
subexpression (i.e., each paired\n * parenthesis). We refer to the value matched for subexpression <n> as $<n>.\n *

```

For example, matching the above expression to `http://www.ics.uci.edu/pub/ietf/uri/#Related` results in the following subexpression matches: `$1 = http`, `$2 = http`, `$3 = //www.ics.uci.edu`, `$4 = www.ics.uci.edu`, `$5 = /pub/ietf/uri/`, `$6 = <undefined>`, `$7 = <undefined>`, `$8 = #Related`, `$9 = Related` where `<undefined>` indicates that the component is not present, as is the case for the query component in the above example. Therefore, we can determine the value of the five components as `scheme = http`, `authority = www.ics.uci.edu`, `path = /pub/ietf/uri/`, `query = <undefined>`, `fragment = #Related`. The regular expression has been modified slightly to expose the `userInfo`, `domain`, and `port` separately from the authority. The modified version yields `scheme = http`, `userInfo = <undefined>`, `domain = www.ics.uci.edu`, `port = <undefined>`, `path = /pub/ietf/uri/`, `query = <undefined>`, `fragment = #Related`.

```

@type {!RegExp} @internal ^/const /** @type {?} */
_splitRe = new RegExp(
  '^' +
  '(?:' +
  '([^\?#.]*)' + // scheme - ignore special characters
  // used by other URL parts such as :,
  // userinfo
  '([^\w\d\|\\\u0100-\u0fff.%]*)' + // domain - restrict to letters,
  // digits, dashes, dots, percent
  '([^\[\]@/?:;(){}*~\|\\\u0100-\u0fff.%]*)' + // escapes, and unicode characters.
  '(:' +
  '([^\?#.]*)' + // port
  ')?' +
  '(/' +
  '([^\?#.]*)' + // path
  ')?' +
  '(?' +
  '([^\?#.]*)' + // query
  ')?' +
  '(?' +
  '([^\?#.]*)' + // fragment
  ')?'
);
let _ComponentIndex = number;
let _ComponentIndex: any = {};
_ComponentIndex.Scheme = 1;
_ComponentIndex.UserInfo = 2;
_ComponentIndex.Domain = 3;
_ComponentIndex.Port = 4;
_ComponentIndex.Path = 5;
_ComponentIndex.QueryData = 6;
_ComponentIndex.Fragment = 7;
_ComponentIndex[_ComponentIndex.Scheme] = "Scheme";
_ComponentIndex[_ComponentIndex.UserInfo] = "UserInfo";
_ComponentIndex[_ComponentIndex.Domain] = "Domain";
_ComponentIndex[_ComponentIndex.Port] = "Port";
_ComponentIndex[_ComponentIndex.Path] = "Path";
_ComponentIndex[_ComponentIndex.QueryData] = "QueryData";
_ComponentIndex[_ComponentIndex.Fragment] = "Fragment";

```

`uri` Splits a URI into its component parts. Each component can be accessed via the component indices; for example: `goog.uri.utils.split(someStr)[goog.uri.utils.ComponentIndex.QUERY_DATA]`.

`@param {string} uri` The URI string to examine.

`@return {Array}` Each component still URI-encoded. Each component that is present will contain the encoded value, whereas components that are not present will be undefined or empty, depending on the browser's regular expression implementation. Never null, since arbitrary strings may still look like path names.

```

function _split(uri: string): Array<string|any> {
  return uri.match(_splitRe);
}

```

`@param {string} path` A non-empty path component.

`@return {string}` Path component with removed dot segments.

```

function _removeDotSegments(path: string): string {
  if (path === '/') return '/';
  const leadingSlash = path[0] === '/' ? '' : '/';
  const trailingSlash = path[path.length - 1] === '/' ? '' : '/';
  const segments = path.split('/');
  const out: string[] = [];
  let up = 0;
  for (let pos = 0; pos < segments.length; pos++) {
    const segment = segments[pos];
    switch (segment) {
      case '':
      case '.':
      case '..':
        if (out.length > 0) {
          out.pop();
        }
        break;
      default:
        out.push(segment);
    }
  }
  if (leadingSlash === '/') {
    while (up-- > 0) {
      out.unshift('.');
    }
  }
  if (out.length === 0) {
    out.push('.');
  }
  return leadingSlash + out.join('/') + trailingSlash;
}

```

Takes an array of the parts from `split` and canonicalizes the path part and then joins all the parts.

```

function _joinAndCanonicalizePath(parts: any[]): string {
  let path = parts[_ComponentIndex.Path];
  path = isBlank(path) ? '' : _removeDotSegments(path);
  parts[_ComponentIndex.Path] = path;
  return _buildFromEncodedParts(
    parts[_ComponentIndex.Scheme],
    parts[_ComponentIndex.UserInfo],
    parts[_ComponentIndex.Domain],
    parts[_ComponentIndex.Port],
    path,
    parts[_ComponentIndex.QueryData],
    parts[_ComponentIndex.Fragment]
  );
}

```

Resolves a URL.

```

function _resolveUrl(base: string, url: string): string {
  const parts = _split(encodeURI(url));
  const

```

```
@type {?} */ baseParts = _split(base);\n\n if (isPresent(parts[_ComponentIndex.Scheme])) {\n  return\n  _joinAndCanonicalizePath(parts);\n } else {\n  parts[_ComponentIndex.Scheme] =\n  baseParts[_ComponentIndex.Scheme];\n }\n\n for (let /** @type {?} */ i = _ComponentIndex.Scheme; i <=\n  _ComponentIndex.Port; i++) {\n  if (isBlank(parts[i])) {\n   parts[i] = baseParts[i];\n  }\n }\n\n if\n  (parts[_ComponentIndex.Path][0] == '/') {\n  return _joinAndCanonicalizePath(parts);\n }\n\n let /** @type {?} */\n  */ path = baseParts[_ComponentIndex.Path];\n  if (isBlank(path)) path = '/';\n  const /** @type {?} */ index =\n  path.lastIndexOf('/');\n  path = path.substring(0, index + 1) + parts[_ComponentIndex.Path];\n  parts[_ComponentIndex.Path] = path;\n  return _joinAndCanonicalizePath(parts);\n }\n\ninterface\n  DecoratorInvocation {\n  type: Function;\n  args?: any[];\n }
```

Found in path(s):

```
* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/url_resolver.js.map  
No license file was found, but licenses were detected in source scan.
```

```
{"version":3,"file":"version.js","sourceRoot":"","sources":["../../././modules/@angular/compiler/src/version.ts"],"na  
mes":[],"mappings":"AAAA;:::;GAMG;OAQI,EAAC,OAAO,EAAC,MAAM,eAAe;AACrC;;GAEG;AACH,OAA  
O,IAAM,gBAAgB,CAAC,OAAO,GAAG,IAAI,OAAO,CAAC,mBAAMB,CAAC,CAAC","sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an  
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n * @module\n * @description\n * Entry point for all public APIs of the common package.\n * \n * @import {Version} from  
'@angular/core';\n * @stable\n * \n * @export const /** @type {?} */ VERSION = new  
Version('2.4.0');\n * \n * @interface DecoratorInvocation {\n * type: Function;\n * args?: any[];\n * }"]}
```

Found in path(s):

```
* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/version.js.map  
No license file was found, but licenses were detected in source scan.
```

```
{"version":3,"file":"compiler_factory.js","sourceRoot":"","sources":["../../././././modules/@angular/compiler/src/aot/  
compiler_factory.ts"],"names":[],"mappings":"AAAA;:::;GAMG;OAEI,EAAC,iBAAiB,EAAC,MAAM,eAAe;OA  
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mB,EAAC,MAAM,yBAAyB;OACpD,EAAC,iBAAiB,EAAC,MAAM,uBAAuB;OACbD,EAAC,wBAAwB,EAAC  
,MAAM,+BAA+B;OAC/D,EAAC,KAAK,EAAC,MAAM,4BAA4B;OACzC,EAAC,MAAM,EAAC,MAAM,6BA  
A6B;OAC3C,EAAC,cAAc,EAAC,MAAM,0BAA0B;OACbD,EAAC,uBAAuB,EAAC,MAAM,sBAAsB;OACrD,E  
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```

```

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t":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport
{ViewEncapsulation} from '@angular/core';\n\nimport {AnimationParser} from
'./animation/animation_parser';\n\nimport {CompilerConfig} from './config';\n\nimport {DirectiveNormalizer} from
'./directive_normalizer';\n\nimport {DirectiveResolver} from './directive_resolver';\n\nimport
{DirectiveWrapperCompiler} from './directive_wrapper_compiler';\n\nimport {Lexer} from
'./expression_parser/lexer';\n\nimport {Parser} from './expression_parser/parser';\n\nimport {I18NHtmlParser} from
'./i18n/i18n_html_parser';\n\nimport {CompileMetadataResolver} from './metadata_resolver';\n\nimport {HtmlParser}
from './ml_parser/html_parser';\n\nimport {NgModuleCompiler} from './ng_module_compiler';\n\nimport
{NgModuleResolver} from './ng_module_resolver';\n\nimport {TypeScriptEmitter} from
'./output/ts_emitter';\n\nimport {PipeResolver} from './pipe_resolver';\n\nimport {Console} from
'./private_import_core';\n\nimport {DomElementSchemaRegistry} from
'./schema/dom_element_schema_registry';\n\nimport {StyleCompiler} from './style_compiler';\n\nimport
{TemplateParser} from './template_parser/template_parser';\n\nimport {createOfflineCompileUrlResolver} from
'./url_resolver';\n\nimport {ViewCompiler} from './view_compiler/view_compiler';\n\nimport {AotCompiler} from
'./compiler';\n\nimport {AotCompilerHost} from './compiler_host';\n\nimport {AotCompilerOptions} from
'./compiler_options';\n\nimport {StaticAndDynamicReflectionCapabilities} from
'./static_reflection_capabilities';\n\nimport {StaticReflector} from './static_reflector';\n\nimport {StaticSymbolCache}
from './static_symbol';\n\nimport {StaticSymbolResolver} from './static_symbol_resolver';\n\nimport
{AotSummaryResolver} from './summary_resolver';\n\n/**\n * Creates a new AotCompiler based on options and a
host.\n * @param {?} compilerHost\n * @param {?} options\n * @return {?} \n */\n\nexport function
createAotCompiler(compilerHost: AotCompilerHost, options: AotCompilerOptions):\n {compiler: AotCompiler,
reflector: StaticReflector} {\n let /** @type {?} */ translations: string = options.translations || '';\n\n const /**
@type {?} */ urlResolver = createOfflineCompileUrlResolver();\n const /** @type {?} */ symbolCache = new
StaticSymbolCache();\n const /** @type {?} */ summaryResolver = new AotSummaryResolver(compilerHost,
symbolCache);\n const /** @type {?} */ symbolResolver = new StaticSymbolResolver(compilerHost,
symbolCache, summaryResolver);\n const /** @type {?} */ staticReflector = new
StaticReflector(symbolResolver);\n StaticAndDynamicReflectionCapabilities.install(staticReflector);\n const /**
@type {?} */ htmlParser = new I18NHtmlParser(new HtmlParser(), translations, options.i18nFormat);\n const /**
@type {?} */ config = new CompilerConfig({\n genDebugInfo: options.debug === true,\n defaultEncapsulation:
ViewEncapsulation.Emulated,\n logBindingUpdate: false,\n useJit: false\n });\n const /** @type {?} */
normalizer = new DirectiveNormalizer(\n {get: (url: string) => compilerHost.loadResource(url)}, urlResolver,

```





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,GAAG,KAAK,CAAC,IAAI,GAAG,KAAK,GAAG,CAAC,CAAC,CAAC;YACtE,EAAE,CAAC,CAAC,OAAO,G





REVIEW!\n/\n// Newly added properties must be security reviewed and assigned an appropriate SecurityContext  
in\n// dom\_security\_schema.ts. Reach out to mprobst & rjamet for details.\n/\n//

```
=====  
=====\nconst /** @type {?} */ SCHEMA:\n  string[] =\n  [\n    '[Element]|textContent,%classList,className,id,innerHTML,*beforecopy,*beforecut,*beforepaste,*copy,*cut,*paste,*search,*selectstart,*webkitfullscreenchange,*webkitfullscreenererror,*wheel,outerHTML,#scrollLeft,#scrollTop',\n    '\n    '[HTMLElement]^[Element]|accessKey,contentEditable,dir,!draggable,!hidden,innerText,lang,*abort,*beforecopy,*beforecut,*beforepaste,*blur,*cancel,*canplay,*canplaythrough,*change,*click,*close,*contextmenu,*copy,*cuechange,*cut,*dblclick,*drag,*dragend,*dragenter,*dragleave,*dragover,*dragstart,*drop,*durationchange,*emptied,*ended,*error,*focus,*input,*invalid,*keydown,*keypress,*keyup,*load,*loadeddata,*loadedmetadata,*loadstart,*message,*mousedown,*mouseenter,*mouseleave,*mousemove,*mouseout,*mouseover,*mouseup,*mousewheel,*mozfullscreenchange,*mozfullscreenererror,*mozpointerlockchange,*mozpointerlockerror,*paste,*pause,*play,*playing,*progress,*ratechange,*reset,*resize,*scroll,*search,*seeked,*seeking,*select,*selectstart,*show,*stalled,*submit,*suspend,*timeupdate,*toggle,*volumechange,*waiting,*webglcontextcreationerror,*webglcontextlost,*webglcontextrestored,*webkitfullscreenchange,*webkitfullscreenererror,*wheel,outerText,!spellcheck,%style,#tabIndex,title,!translate',\n    '\n    'abbr,address,article,aside,b,bdi,bdo,cite,code,dd,dfn,dt,em,figcaption,figure,footer,header,i,kbd,main,mark,nav,noscript,rb,rp,rt,rtc,ruby,s,samp,section,small,strong,sub,sup,u,var,wbr^[HTMLElement]|accessKey,contentEditable,dir,!draggable,!hidden,innerText,lang,*abort,*beforecopy,*beforecut,*beforepaste,*blur,*cancel,*canplay,*canplaythrough,*change,*click,*close,*contextmenu,*copy,*cuechange,*cut,*dblclick,*drag,*dragend,*dragenter,*dragleave,*dragover,*dragstart,*drop,*durationchange,*emptied,*ended,*error,*focus,*input,*invalid,*keydown,*keypress,*keyup,*load,*loadeddata,*loadedmetadata,*loadstart,*message,*mousedown,*mouseenter,*mouseleave,*mousemove,*mouseout,*mouseover,*mouseup,*mousewheel,*mozfullscreenchange,*mozfullscreenererror,*mozpointerlockchange,*mozpointerlockerror,*paste,*pause,*play,*playing,*progress,*ratechange,*reset,*resize,*scroll,*search,*seeked,*seeking,*select,*selectstart,*show,*stalled,*submit,*suspend,*timeupdate,*toggle,*volumechange,*waiting,*webglcontextcreationerror,*webglcontextlost,*webglcontextrestored,*webkitfullscreenchange,*webkitfullscreenererror,*wheel,outerText,!spellcheck,%style,#tabIndex,title,!translate',\n    '\n    'media^[HTMLElement]!autoplay,!controls,%crossOrigin,#currentTime,!defaultMuted,#defaultPlaybackRate,!disableRemotePlayback,!loop,!muted,*encrypted,#playbackRate,preload,src,%srcObject,#volume',\n    '\n    ':svg^[HTMLElement]|*abort,*blur,*cancel,*canplay,*canplaythrough,*change,*click,*close,*contextmenu,*cuechange,*dblclick,*drag,*dragend,*dragenter,*dragleave,*dragover,*dragstart,*drop,*durationchange,*emptied,*ended,*error,*focus,*input,*invalid,*keydown,*keypress,*keyup,*load,*loadeddata,*loadedmetadata,*loadstart,*mousedown,*mouseenter,*mouseleave,*mousemove,*mouseout,*mouseover,*mouseup,*mousewheel,*pause,*play,*playing,*progress,*ratechange,*reset,*resize,*scroll,*seeked,*seeking,*select,*show,*stalled,*submit,*suspend,*timeupdate,*toggle,*volumechange,*waiting,%style,#tabIndex',\n    '\n    ':svg:animation^:svg:|*begin,*end,*repeat',\n    '\n    ':svg:geometry^:svg:',\n    '\n    ':svg:componentTransferFunction^:svg:',\n    '\n    ':svg:gradient^:svg:',\n    '\n    ':svg:textContent^:svg:graphics|',\n    '\n    ':svg:textPositioning^:svg:textContent|',\n    '\n    'a^[HTMLElement]|charset,coords,download,hash,host,hostname,href,hreflang,name,password,pathname,ping,port,protocol,referrerPolicy,rel,rev,search,shape,target,text,type,username',\n    '\n    'area^[HTMLElement]|alt,coords,hash,host,hostname,href,!noHref,password,pathname,ping,port,protocol,referrerPolicy,search,shape,target,username',\n    '\n    'audio^media|',\n    '\n    'br^[HTMLElement]|clear',\n    '\n    'base^[HTMLElement]|href,target',\n    '\n    'body^[HTMLElement]|aLink,background,bgColor,link,*beforeunload,*blur,*error,*focus,*hashchange,*languagechange,*load,*message,*offline,*online,*pagehide,*pageshow,*popstate,*rejectionhandled,*resize,*scroll,*storage,*unhandledrejection,*unload,text,vLink',\n    '\n    'button^[HTMLElement]!autofocus,!disabled,formAction,formEnctype,formMethod,!formNoValidate,formTarget,\n
```

ame,type,value',\n 'canvas^[HTMLInputElement]#height,#width',\n 'content^[HTMLInputElement]select',\n
 'dl^[HTMLInputElement]!compact',\n 'datalist^[HTMLInputElement]',\n 'details^[HTMLInputElement]!open',\n
 'dialog^[HTMLInputElement]!open,returnValue',\n 'dir^[HTMLInputElement]!compact',\n
 'div^[HTMLInputElement]align',\n 'embed^[HTMLInputElement]align,height,name,src,type,width',\n
 'fieldset^[HTMLInputElement]!disabled,name',\n 'font^[HTMLInputElement]color,face,size',\n
 'form^[HTMLInputElement]acceptCharset,action,autocomplete,encoding,enctype,method,name,!noValidate,target',\n
 'frame^[HTMLInputElement]frameBorder,longDesc,marginHeight,marginWidth,name,!noResize,scrolling,src',\n
 'frameset^[HTMLInputElement]cols,\*beforeunload,\*blur,\*error,\*focus,\*hashchange,\*languagechange,\*load,\*message,\*
 offline,\*online,\*pagehide,\*pageshow,\*popstate,\*rejectionhandled,\*resize,\*scroll,\*storage,\*unhandledrejection,\*unl
 oad,rows',\n 'hr^[HTMLInputElement]align,color,!noShade,size,width',\n 'head^[HTMLInputElement]',\n
 'h1,h2,h3,h4,h5,h6^[HTMLInputElement]align',\n 'html^[HTMLInputElement]version',\n
 'iframe^[HTMLInputElement]align,!allowFullscreen,frameBorder,height,longDesc,marginHeight,marginWidth,name,ref
 ererPolicy,% sandbox,scrolling,src,srcdoc,width',\n
 'img^[HTMLInputElement]align,alt,border,% crossOrigin,#height,#hspace,!isMap,longDesc,lowsrc,name,referrerPolicy,s
 izes,src,srcset,useMap,#vspace,#width',\n
 'input^[HTMLInputElement]accept,align,alt,autocapitalize,autocomplete,!autofocus,!checked,!defaultChecked,defaultVa
 lue,dirName,!disabled,% files,formAction,formEnctype,formMethod,!formNoValidate,formTarget,#height,!increme
 ntal,!indeterminate,max,#maxLength,min,#minLength,!multiple,name,pattern,placeholder,!readOnly,!required,selec
 tionDirection,#selectionEnd,#selectionStart,#size,src,step,type,useMap,value,% valueAsDate,#valueAsNumber,#wid
 th',\n 'keygen^[HTMLInputElement]!autofocus,challenge,!disabled,keytype,name',\n
 'li^[HTMLInputElement]type,#value',\n 'label^[HTMLInputElement]htmlFor',\n 'legend^[HTMLInputElement]align',\n
 'link^[HTMLInputElement]as,charset,% crossOrigin,!disabled,href,hreflang,integrity,media,rel,% relList,rev,% sizes,target
 ,type',\n 'map^[HTMLInputElement]name',\n
 'marquee^[HTMLInputElement]behavior,bgColor,direction,height,#hspace,#loop,#scrollAmount,#scrollDelay,!trueSpee
 d,#vspace,width',\n 'menu^[HTMLInputElement]!compact',\n
 'meta^[HTMLInputElement]content,httpEquiv,name,scheme',\n
 'meter^[HTMLInputElement]#high,#low,#max,#min,#optimum,#value',\n
 'ins,del^[HTMLInputElement]cite,dateTime',\n 'ol^[HTMLInputElement]!compact,!reversed,#start,type',\n
 'object^[HTMLInputElement]align,archive,border,code,codeBase,codeType,data,!declare,height,#hspace,name,standby,t
 ype,useMap,#vspace,width',\n 'optgroup^[HTMLInputElement]!disabled,label',\n
 'option^[HTMLInputElement]!defaultSelected,!disabled,label,!selected,text,value',\n
 'output^[HTMLInputElement]defaultValue,% htmlFor,name,value',\n 'p^[HTMLInputElement]align',\n
 'param^[HTMLInputElement]name,type,value,valueType',\n 'picture^[HTMLInputElement]',\n
 'pre^[HTMLInputElement]#width',\n 'progress^[HTMLInputElement]#max,#value',\n
 'q,blockquote,cite^[HTMLInputElement]',\n
 'script^[HTMLInputElement]!async,charset,% crossOrigin,!defer,event,htmlFor,integrity,src,text,type',\n
 'select^[HTMLInputElement]!autofocus,!disabled,#length,!multiple,name,!required,#selectedIndex,#size,value',\n
 'shadow^[HTMLInputElement]',\n 'source^[HTMLInputElement]media,sizes,src,srcset,type',\n
 'span^[HTMLInputElement]',\n 'style^[HTMLInputElement]!disabled,media,type',\n
 'caption^[HTMLInputElement]align',\n
 'th,td^[HTMLInputElement]abbr,align,axis,bgColor,ch,chOff,#colSpan,headers,height,!noWrap,#rowSpan,scope,vAlign,
 width',\n 'col,colgroup^[HTMLInputElement]align,ch,chOff,#span,vAlign,width',\n
 'table^[HTMLInputElement]align,bgColor,border,% caption,cellPadding,cellSpacing,frame,rules,summary,% tFoot,% tHe
 ad,width',\n 'tr^[HTMLInputElement]align,bgColor,ch,chOff,vAlign',\n
 'tfoot,thead,tbody^[HTMLInputElement]align,ch,chOff,vAlign',\n 'template^[HTMLInputElement]',\n
 'textarea^[HTMLInputElement]autocapitalize,!autofocus,#cols,defaultValue,dirName,!disabled,#maxLength,#minLength
 ,name,placeholder,!readOnly,!required,#rows,selectionDirection,#selectionEnd,#selectionStart,value,wrap',\n
 'title^[HTMLInputElement]text',\n 'track^[HTMLInputElement]!default,kind,label,src,srclang',\n

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'ul^[HTMLInputElement]!compact,type',\n      'unknown^[HTMLInputElement]|\n
'video^media|#height,poster,#width',\n      ':svg:a^:svg:graphics|',\n      ':svg:animate^:svg:animation|',\n
':svg:animateMotion^:svg:animation|',\n      ':svg:animateTransform^:svg:animation|',\n
':svg:circle^:svg:geometry|',\n      ':svg:clipPath^:svg:graphics|',\n      ':svg:cursor^:svg:|',\n
':svg:defs^:svg:graphics|',\n      ':svg:desc^:svg:|',\n      ':svg:discard^:svg:|',\n
':svg:ellipse^:svg:geometry|',\n      ':svg:feBlend^:svg:|',\n      ':svg:feColorMatrix^:svg:|',\n
':svg:feComponentTransfer^:svg:|',\n      ':svg:feComposite^:svg:|',\n      ':svg:feConvolveMatrix^:svg:|',\n
':svg:feDiffuseLighting^:svg:|',\n      ':svg:feDisplacementMap^:svg:|',\n      ':svg:feDistantLight^:svg:|',\n
':svg:feDropShadow^:svg:|',\n      ':svg:feFlood^:svg:|',\n
':svg:feFuncA^:svg:componentTransferFunction|',\n      ':svg:feFuncB^:svg:componentTransferFunction|',\n
':svg:feFuncG^:svg:componentTransferFunction|',\n      ':svg:feFuncR^:svg:componentTransferFunction|',\n
':svg:feGaussianBlur^:svg:|',\n      ':svg:feImage^:svg:|',\n      ':svg:feMerge^:svg:|',\n
':svg:feMergeNode^:svg:|',\n      ':svg:feMorphology^:svg:|',\n      ':svg:feOffset^:svg:|',\n
':svg:fePointLight^:svg:|',\n      ':svg:feSpecularLighting^:svg:|',\n      ':svg:feSpotLight^:svg:|',\n
':svg:feTile^:svg:|',\n      ':svg:feTurbulence^:svg:|',\n      ':svg:filter^:svg:|',\n
':svg:foreignObject^:svg:graphics|',\n      ':svg:g^:svg:graphics|',\n      ':svg:image^:svg:graphics|',\n
':svg:line^:svg:geometry|',\n      ':svg:linearGradient^:svg:gradient|',\n      ':svg:mpath^:svg:|',\n
':svg:marker^:svg:|',\n      ':svg:mask^:svg:|',\n      ':svg:metadata^:svg:|',\n      ':svg:path^:svg:geometry|',\n
':svg:pattern^:svg:|',\n      ':svg:polygon^:svg:geometry|',\n      ':svg:polyline^:svg:geometry|',\n
':svg:radialGradient^:svg:gradient|',\n      ':svg:rect^:svg:geometry|',\n
':svg:svg^:svg:graphics#currentScale,#zoomAndPan',\n      ':svg:script^:svg:|type|',\n
':svg:set^:svg:animation|',\n      ':svg:stop^:svg:|',\n      ':svg:style^:svg:|!disabled,media,title,type|',\n
':svg:switch^:svg:graphics|',\n      ':svg:symbol^:svg:|',\n      ':svg:tspan^:svg:textPositioning|',\n
':svg:text^:svg:textPositioning|',\n      ':svg:textPath^:svg:textContent|',\n      ':svg:title^:svg:|',\n
':svg:use^:svg:graphics|',\n      ':svg:view^:svg:|#zoomAndPan|',\n      'data^[HTMLInputElement]value|',\n
'menuitem^[HTMLInputElement]type,label,icon,!disabled,!checked,radiogroup,!default|',\n
'summary^[HTMLInputElement]|\n      'time^[HTMLInputElement]dateTime|',\n      ];\n\nconst /** @type {?} */
_ATTR_TO_PROP: {[name: string]: string} = {\n  'class': 'className',\n  'for': 'htmlFor',\n  'formaction':
'formAction',\n  'innerHTML': 'innerHTML',\n  'readonly': 'readOnly',\n  'tabindex':
'tabIndex',\n};\n\n@CompilerInjectable()\nexport class DomElementSchemaRegistry extends
ElementSchemaRegistry {\n  private _schema: {[element: string]: {[property: string]: string}} = {};\n  constructor()
{\n    super();\n    SCHEMA.forEach(encodedType => {\n      const type: {[property: string]: string} = {};\n      const
[strType, strProperties] = encodedType.split('|');\n      const properties = strProperties.split(',');\n      const
[typeNames, superName] = strType.split('^');\n      typeNames.split(',').forEach(tag =>
this._schema[tag.toLowerCase()] = type);\n      const superType = superName &&
this._schema[superName.toLowerCase()];\n      if (superType) {\n        Object.keys(superType).forEach((prop:
string) => { type[prop] = superType[prop]; });\n      }\n      properties.forEach((property: string) => {\n        if
(property.length > 0) {\n          switch (property[0]) {\n            case '*':\n              // We don't yet support events.\n
              // If ever allowing to bind to events, GO THROUGH A SECURITY REVIEW, allowing events\n
              will\n              // almost certainly introduce bad XSS vulnerabilities.\n              // type[property.substring(1)] =
EVENT;\n              break;\n            case '!':\n              type[property.substring(1)] = BOOLEAN;\n              break;\n
            case '#':\n              type[property.substring(1)] = NUMBER;\n              break;\n            case '%':\n
              type[property.substring(1)] = OBJECT;\n              break;\n            default:\n              type[property] = STRING;\n
          }\n        }\n      });\n    });\n  }\n  /** @param {?} tagName\n  * @param {?} propName\n  * @param {?}
schemaMetas\n  * @return {?} */\n  hasProperty(tagName: string, propName: string, schemaMetas:
SchemaMetadata[]): boolean {\n    if (schemaMetas.some((schema) => schema.name ===
NO_ERRORS_SCHEMA.name)) {\n      return true;\n    }\n    if (tagName.indexOf('-') > -1) {\n      if (tagName
=== 'ng-container' || tagName === 'ng-content') {\n        return false;\n      }\n      if (schemaMetas.some((schema)

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=> schema.name === CUSTOM_ELEMENTS_SCHEMA.name)) {\n    // Can't tell now as we don't know which
properties a custom element will get\n    // once it is instantiated\n    return true;\n    }\n }\n\n const /**
@type {?} */ elementProperties = this._schema[tagName.toLowerCase()] || this._schema['unknown'];\n return
!!elementProperties[propName];\n }\n/**\n * @param {?} tagName\n * @param {?} schemaMetas\n * @return
{?}\n *\nhasElement(tagName: string, schemaMetas: SchemaMetadata[]): boolean {\n if
(schemaMetas.some((schema) => schema.name === NO_ERRORS_SCHEMA.name)) {\n return true;\n }\n\n
if (tagName.indexOf('.') > -1) {\n if (tagName === 'ng-container' || tagName === 'ng-content') {\n return
true;\n }\n\n if (schemaMetas.some((schema) => schema.name ===
CUSTOM_ELEMENTS_SCHEMA.name)) {\n // Allow any custom elements\n return true;\n }\n
}\n\n return !!this._schema[tagName.toLowerCase()];\n }\n/**\n * securityContext returns the security context
for the given property on the given DOM tag.\n * *\n * Tag and property name are statically known and cannot
change at runtime, i.e. it is not\n * possible to bind a value into a changing attribute or tag name.\n * *\n * The
filtering is white list based. All attributes in the schema above are assumed to have the\n * 'NONE' security context,
i.e. that they are safe inert string values. Only specific well known\n * attack vectors are assigned their appropriate
context.\n * @param {?} tagName\n * @param {?} propName\n * @param {?} isAttribute\n * @return {?}}\n
*\nsecurityContext(tagName: string, propName: string, isAttribute: boolean): SecurityContext {\n if (isAttribute)
{\n // NB: For security purposes, use the mapped property name, not the attribute name.\n propName =
this.getMappedPropName(propName);\n }\n\n // Make sure comparisons are case insensitive, so that case
differences between attribute and\n // property names do not have a security impact.\n tagName =
tagName.toLowerCase();\n propName = propName.toLowerCase();\n let /** @type {?} */ ctx =
SECURITY_SCHEMA[tagName + '|' + propName];\n if (ctx) {\n return ctx;\n }\n ctx =
SECURITY_SCHEMA['*' + propName];\n return ctx ? ctx : SecurityContext.NONE;\n }\n/**\n * @param {?}
propName\n * @return {?}}\n *\ngetMappedPropName(propName: string): string { return
_ATTR_TO_PROP[propName] || propName; }\n/**\n * @return {?}}\n *\ngetDefaultComponentElementName():
string { return 'ng-component'; }\n/**\n * @param {?} name\n * @return {?}}\n *\nvalidateProperty(name: string):
{error: boolean, msg?: string} {\n if (name.toLowerCase().startsWith('on')) {\n const /** @type {?} */ msg =
`Binding to event property '${name}' is disallowed for security reasons, ` +\n `please use
(${name.slice(2)})=...`\n `\\nIf '${name}' is a directive input, make sure the directive is imported by the ` +\n
`current module.`;\n return {error: true, msg: msg};\n } else {\n return {error: false};\n }\n }\n/**\n *
@param {?} name\n * @return {?}}\n *\nvalidateAttribute(name: string): {error: boolean, msg?: string} {\n if
(name.toLowerCase().startsWith('on')) {\n const /** @type {?} */ msg = `Binding to event attribute '${name}' is
disallowed for security reasons, ` +\n `please use (${name.slice(2)})=...`;\n return {error: true, msg: msg};\n
} else {\n return {error: false};\n }\n }\n/**\n * @return {?}}\n *\nallKnownElementNames(): string[] {
return Object.keys(this._schema); }\n/**\n * @param {?} propName\n * @return {?}}\n
*\nnormalizeAnimationStyleProperty(propName: string): string {\n return dashCaseToCamelCase(propName);\n
}\n/**\n * @param {?} camelCaseProp\n * @param {?} userProvidedProp\n * @param {?} val\n * @return {?}}\n
*\nnormalizeAnimationStyleValue(camelCaseProp: string, userProvidedProp: string, val: string|number):\n
{error: string, value: string} {\n let /** @type {?} */ unit: string = ";\n const /** @type {?} */ strVal =
val.toString().trim();\n let /** @type {?} */ errorMsg: string = null;\n\n if
(!_isPixelDimensionStyle(camelCaseProp) && val !== 0 && val !== '0') {\n if (typeof val === 'number') {\n
unit = 'px';\n } else {\n const /** @type {?} */ valAndSuffixMatch = val.match(/^([+-]?[\\d\\.]+([a-z]*)$)/);\n
if (valAndSuffixMatch && valAndSuffixMatch[1].length === 0) {\n errorMsg = `Please provide a CSS unit
value for ${userProvidedProp}:${val}`;\n }\n }\n }\n return {error: errorMsg, value: strVal + unit};\n
}\n}\n\nfunction DomElementSchemaRegistry_tsickle_Closure_declarations() {\n /** @type {?} */
*\nDomElementSchemaRegistry.prototype._schema;\n}\n\n/**\n * @param {?} propName\n * @return {?}}\n
*\nfunction _isPixelDimensionStyle(prop: string): boolean {\n switch (prop) {\n case 'width':\n case 'height':\n
case 'minWidth':\n case 'minHeight':\n case 'maxWidth':\n case 'maxHeight':\n case 'left':\n case 'top':\n
case 'bottom':\n case 'right':\n case 'fontSize':\n case 'outlineWidth':\n case 'outlineOffset':\n case

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'paddingTop':\n case 'paddingLeft':\n case 'paddingBottom':\n case 'paddingRight':\n case 'marginTop':\n case 'marginLeft':\n case 'marginBottom':\n case 'marginRight':\n case 'borderRadius':\n case 'borderWidth':\n case 'borderTopWidth':\n case 'borderLeftWidth':\n case 'borderRightWidth':\n case 'borderBottomWidth':\n case 'textIndent':\n return true;\n\n default:\n return false;\n }\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n}
```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-

tgz/package/src/schema/dom\_element\_schema\_registry.js.map

No license file was found, but licenses were detected in source scan.

```
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AC;IAAC,IAAI,CAAC,CAAC;QACN,WAAW,GAAQ,MAAM,CAAC;IAC5B,CAAC;AACH,CAAC;AAAC,IAAI  
,CAAC,CAAC;IACN,WAAW,GAAQ,MAAM,CAAC;AAC5B,CAAC;AAED,kCAaC,EAAyB;IAC5C,IAAI,CAA  
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xC,qDAAqD;AACvD,CAAC,CAAC;AAEF,0BAA0B,GAAQ;IAChC,MAAM,CAAC,GAAG,IAAI,IAAI,CAAC;A  
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AM,CAAC,OAAO,GAAG,KAAC,QAAQ,IAAI,GAAG,KAAC,IAAI,IAAI,MAAM,CAAC,cAAc,CAAC,GAAG,C  
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AI,IAAI,CAAC,KAAC,CAAC,GAAG,CAAC,OAAO,EAAE,CAAC,CAAC;AACtD,CAAC;AAED,0BAA0B,KA  
AU;IACIC,EAAE,CAAC,CAAC,OAAO,KAAC,KAAC,QAAQ,CAAC,CAAC,CAAC;QAC9B,MAAM,CAAC,KA  
AK,CAAC;IACf,CAAC;IAED,EAAE,CAAC,CAAC,KAAC,IAAI,IAAI,CAAC,CAAC,CAAC;QACIB,MAAM,C  
AAC,EAAE,GAAG,KAAC,CAAC;IACpB,CAAC;IAED,EAAE,CAAC,CAAC,KAAC,CAAC,cAAc,CAAC,CAA  
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ATQ,+BAAiB,GAAXB,UAAyB,IAAY;QACnC,IAAM,MAAM,GAAW,QAAQ,CAAC,IAAI,CAAC,CAAC;QACt  
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@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nexport interface
BrowserNodeGlobal {\n  Object: typeof Object;\n  Array: typeof Array;\n  Map: typeof Map;\n  Set: typeof Set;\n
Date: DateConstructor;\n  RegExp: RegExpConstructor;\n  JSON: typeof JSON;\n  Math: any; // typeof Math;\n
assert(condition: any): void;\n  Reflect: any;\n  getAngularTestability: Function;\n  getAllAngularTestabilities:
Function;\n  getAllAngularRootElements: Function;\n  frameworkStabilizers: Array<Function>;\n  setTimeout:
Function;\n  clearTimeout: Function;\n  setInterval: Function;\n  clearInterval: Function;\n  encodeURI:
Function;\n}\n\n// TODO(jteplitz602): Load WorkerGlobalScope from lib.webworker.d.ts file #3492\nndeclare var
WorkerGlobalScope: any /** TODO #9100 */;\n\n// CommonJS / Node have global context exposed as \"global\"
variable.\n// We don't want to include the whole node.d.ts this this compilation unit so we'll just fake\n// the global
\"global\" var for now.\ndeclare var global: any /** TODO #9100 */;\n\nlet globalScope: BrowserNodeGlobal;\nif
(typeof window === 'undefined') {\n  if (typeof WorkerGlobalScope !== 'undefined' && self instanceof
WorkerGlobalScope) {\n    // TODO: Replace any with WorkerGlobalScope from lib.webworker.d.ts #3492\n
globalScope = <any>self;\n  } else {\n    globalScope = <any>global;\n  }\n} else {\n  globalScope =
<any>window;\n}\n\nexport function scheduleMicroTask(fn: Function) {\n
Zone.current.scheduleMicroTask('scheduleMicrotask', fn);\n}\n\n// Need to declare a new variable for global here
since TypeScript\n// exports the original value of the symbol.\nconst _global: BrowserNodeGlobal =
globalScope;\n\nexport { _global as global };\n\nexport function getTypeNameForDebugging(type: any): string {\n
return type['name'] || typeof type;\n}\n\n// TODO: remove calls to assert in production environment\n// Note: Can't
just export this and import in in other files\n// as `assert` is a reserved keyword in Dart\n_global.assert = function
assert(condition) {\n  // TODO: to be fixed properly via #2830, noop for now\n};\n\nexport function isPresent(obj:
any): boolean {\n  return obj != null;\n}\n\nexport function isBlank(obj: any): boolean {\n  return obj ==
null;\n}\n\nconst STRING_MAP_PROTO = Object.getPrototypeOf({});\n\nexport function isStrictStringMap(obj:
any): boolean {\n  return typeof obj === 'object' && obj != null && Object.getPrototypeOf(obj) ===
STRING_MAP_PROTO;\n}\n\nexport function isDate(obj: any): obj is Date {\n  return obj instanceof Date &&
!isNaN(obj.valueOf());\n}\n\nexport function stringify(token: any): string {\n  if (typeof token === 'string') {\n
return token;\n  }\n\n  if (token == null) {\n    return \" + token;\n  }\n\n  if (token.overriddenName) {\n    return
`${token.overriddenName}`;\n  }\n\n  if (token.name) {\n    return `${token.name}`;\n  }\n\n  const res =
token.toString();\n  const newLineIndex = res.indexOf(\"\\n\");\n  return newLineIndex === -1 ? res : res.substring(0,
newLineIndex);\n}\n\nexport class NumberWrapper {\n  static parseIntAutoRadix(text: string): number {\n    const
result: number = parseInt(text);\n    if (isNaN(result)) {\n      throw new Error('Invalid integer literal when parsing ' +

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text);\n } \n return result;\n } \n\n static isNumeric(value: any): boolean { return !isNaN(value -
parseFloat(value)); } \n\n // JS has NaN !== NaN\n\n export function looseIdentical(a: any, b: any): boolean { \n
return a === b || typeof a === 'number' && typeof b === 'number' && isNaN(a) && isNaN(b); } \n\n\n export
function isJsObject(o: any): boolean { \n return o !== null && (typeof o === 'function' || typeof o ===
'object'); } \n\n\n export function print(obj: Error | Object) { \n // tslint:disable-next-line:no-console\n
console.log(obj); } \n\n\n export function warn(obj: Error | Object) { \n console.warn(obj); } \n\n\n export function
setValueOnPath(global: any, path: string, value: any) { \n const parts = path.split('.'); \n let obj: any = global; \n
while (parts.length > 1) { \n const name = parts.shift(); \n if (obj.hasOwnProperty(name) && obj[name] != null)
{ \n obj = obj[name]; \n } else { \n obj = obj[name] = {}; \n } \n } \n if (obj === undefined || obj === null)
{ \n obj = {}; \n } \n obj[parts.shift()] = value; } \n\n\n // When Symbol.iterator doesn't exist, retrieves the key used
in es6-shim\n\n declare const Symbol: any; \n let _symbolIterator: any = null; \n\n export function getSymbolIterator():
string | symbol { \n if (!_symbolIterator) { \n if ((<<any>globalScope).Symbol && Symbol.iterator) { \n
_symbolIterator = Symbol.iterator; \n } else { \n // es6-shim specific logic\n const keys =
Object.getOwnPropertyNames(Map.prototype); \n for (let i = 0; i < keys.length; ++i) { \n const key =
keys[i]; \n if (key !== 'entries' && key !== 'size' && \n (Map as any).prototype[key] ===
Map.prototype['entries']) { \n _symbolIterator = key; \n } \n } \n } \n } \n return
_symbolIterator; } \n\n\n export function isPrimitive(obj: any): boolean { \n return !isJsObject(obj); } \n\n\n\n export
function escapeRegExp(s: string): string { \n return s.replace(/([.*+?^=!:${}()|\[\]\/\\])/g, "\\$1"); } \n\n\n\n interface
DecoratorInvocation { \n type: Function; \n args?: any[]; \n } \n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/testing/facade/lang.js.map

No license file was found, but licenses were detected in source scan.

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```



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Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nimport * as ml from './ml_parser/ast';\nimport
{XmlParser} from './ml_parser/xml_parser';\nimport {digest} from './digest';\nimport * as i18n from
 './i18n_ast';\nimport {I18nError} from './parse_util';\nimport {Serializer} from './serializer';\nimport * as xml
from './xml_helper';\n\nconst /** @type {?} */ _VERSION = '1.2';\nconst /** @type {?} */ _XMLNS =
'urn:oasis:names:tc:xliff:document:1.2';\n// TODO(vicb): make this a param (s/_/-/)\nconst /** @type {?} */
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_UNIT_TAG = 'trans-unit';\n// http://docs.oasis-open.org/xliff/v1.2/os/xliff-core.html\n// http://docs.oasis-
open.org/xliff/v1.2/xliff-profile-html/xliff-profile-html-1.2.html\nexport class Xliff implements Serializer {\n/**\n *
@param {?} messages\n * @return {?} \n */\nwrite(messages: i18n.Message[]): string {\n const /** @type {?} */
visitor = new _WriteVisitor();\n const /** @type {?} */ visited: {[id: string]: boolean} = {};\n const /** @type
 {?} */ transUnits: xml.Node[] = [];\n\n messages.forEach(message => {\n const /** @type {?} */ id =
this.digest(message);\n // deduplicate messages\n if (visited[id]) return;\n visited[id] = true;\n\n const
 /** @type {?} */ transUnit = new xml.Tag(_UNIT_TAG, {id, datatype: 'html'});\n transUnit.children.push(\n
new xml.CR(8), new xml.Tag(_SOURCE_TAG, {}, visitor.serialize(message.nodes)),\n new xml.CR(8),
new xml.Tag(_TARGET_TAG));\n\n if (message.description) {\n transUnit.children.push(\n new
xml.CR(8),\n new xml.Tag('note', {priority: '1', from: 'description'}, [new
xml.Text(message.description)]);\n\n if (message.meaning) {\n transUnit.children.push(\n new
xml.CR(8),\n new xml.Tag('note', {priority: '1', from: 'meaning'}, [new xml.Text(message.meaning)]);\n
}\n\n transUnit.children.push(new xml.CR(6));\n\n transUnits.push(new xml.CR(6), transUnit);\n });\n\n
const /** @type {?} */ body = new xml.Tag('body', {}, [...transUnits, new xml.CR(4)]);\n const /** @type {?} */
file = new xml.Tag('file', {'source-language': _SOURCE_LANG, datatype: 'plaintext', original:
'ng2.template'},\n [new xml.CR(4), body, new xml.CR(2)]);\n const /** @type {?} */ xliff = new xml.Tag(\n
'xliff', {version: _VERSION, xmlns: _XMLNS}, [new xml.CR(2), file, new xml.CR());\n\n return
xml.serialize([\n new xml.Declaration({version: '1.0', encoding: 'UTF-8'}), new xml.CR(), xliff, new xml.CR()\n
]);\n }\n\n/**\n * @param {?} content\n * @param {?} url\n * @return {?} \n */\nload(content: string, url: string):
{[msgId: string]: i18n.Node[]} {\n // xliff to xml nodes\n const /** @type {?} */ xliffParser = new
XliffParser();\n const {mlNodesByMsgId, errors} = xliffParser.parse(content, url);\n\n // xml nodes to i18n
nodes\n const /** @type {?} */ i18nNodesByMsgId: {[msgId: string]: i18n.Node[]} = {};\n const /** @type {?} */
converter = new XmlToI18n();\n Object.keys(mlNodesByMsgId).forEach(msgId => {\n const {i18nNodes,
errors: e} = converter.convert(mlNodesByMsgId[msgId]);\n errors.push(...e);\n i18nNodesByMsgId[msgId] =
i18nNodes;\n });\n\n if (errors.length) {\n throw new Error(`xliff parse errors:\n${errors.join("\n")}`);\n
}\n\n return i18nNodesByMsgId;\n }\n\n/**\n * @param {?} message\n * @return {?} \n */\ndigest(message:
i18n.Message): string {\n return digest(message);\n }\n}\n\nclass _WriteVisitor implements i18n.Visitor {\nprivate
_isInIcu: boolean;\n/**\n * @param {?} text\n * @param {?=} context\n * @return {?} \n */\nvisitText(text:
i18n.Text, context?: any): xml.Node[] {\n return [new xml.Text(text.value)];\n }\n/**\n * @param {?} container\n *
@param {?=} context\n * @return {?} \n */\nvisitContainer(container: i18n.Container, context?: any): xml.Node[]
{\n const /** @type {?} */ nodes: xml.Node[] = [];\n container.children.forEach((node: i18n.Node) =>
nodes.push(...node.visit(this)));\n return nodes;\n }\n\n/**\n * @param {?} icu\n * @param {?=} context\n *
@return {?} \n */\nvisitIcu(icu: i18n.Icu, context?: any): xml.Node[] {\n if (this._isInIcu) {\n // nested ICU is
not supported\n throw new Error('xliff does not support nested ICU messages');\n }\n this._isInIcu = true;\n\n
// TODO(vicb): support ICU messages\n // https://lists.oasis-open.org/archives/xliff/201201/msg00028.html\n //

```



```

{\n  if (el.name === _PLACEHOLDER_TAG) {\n    const /** @type {?} */ nameAttr = el.attrs.find((attr) =>
attr.name === 'id');\n    if (nameAttr) {\n      return new i18n.Placeholder(", nameAttr.value, el.sourceSpan);\n    }\n    this._addError(el, `<${_PLACEHOLDER_TAG}> misses the \"id\" attribute`);\n  } else {\n
this._addError(el, `Unexpected tag`);\n  }\n}\n/**\n * @param {?} icu\n * @param {?} context\n * @return {?}\n
*/\nvisitExpansion(icu: ml.Expansion, context: any) {} \n/**\n * @param {?} icuCase\n * @param {?} context\n
* @return {?}\n */\nvisitExpansionCase(icuCase: ml.ExpansionCase, context: any): any {} \n/**\n * @param {?}
comment\n * @param {?} context\n * @return {?}\n */\nvisitComment(comment: ml.Comment, context: any)
{} \n/**\n * @param {?} attribute\n * @param {?} context\n * @return {?}\n */\nvisitAttribute(attribute:
ml.Attribute, context: any) {} \n/**\n * @param {?} node\n * @param {?} message\n * @return {?}\n */\nprivate
_addError(node: ml.Node, message: string): void {\n  this._errors.push(new I18nError(node.sourceSpan,
message));\n}\n}\n\nfunction XmlToI18n_tsickle_Closure_declarations() {\n  /** @type {?}
*/\n  XmlToI18n.prototype._errors;\n}\n\n/**\n * @param {?} tag\n * @return {?}\n */\nfunction
getCtypeForTag(tag: string): string {\n  switch (tag.toLowerCase()) {\n    case 'br':\n      return 'lb';\n    case 'img':\n
return 'image';\n    default:\n      return `x-${tag}`;\n  }\n}\n\ninterface DecoratorInvocation {\n  type: Function;\n
args?: any[];\n}\n}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/serializers/xliff.js.map

No license file was found, but licenses were detected in source scan.

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```

}\n\n return html.nodes;\n } \n/**\n * @param {?} srcMsg\n * @return {?}\n * \nhas(srcMsg: i18n.Message):
boolean { return this.digest(srcMsg) in this._i18nNodesByMsgId; }\n}\n\nfunction
TranslationBundle_tsickle_Closure_declarations() {\n /** @type {?}
*\nTranslationBundle.prototype._i18nToHtml;\n /** @type {?}
*\nTranslationBundle.prototype._i18nNodesByMsgId;\n /** @type {?}
*\nTranslationBundle.prototype.digest;\n}\n\n\nclass I18nToHtmlVisitor implements i18n.Visitor {\nprivate
_srcMsg: i18n.Message;\nprivate _srcMsgStack: i18n.Message[] = [];\nprivate _errors: I18nError[] = [];\n/**\n *
@param {?=} _i18nNodesByMsgId\n * @param {?} _digest\n * \nconstructor(\nprivate _i18nNodesByMsgId:
{[msgId: string]: i18n.Node[] = {}},\nprivate _digest: (m: i18n.Message) => string) {\n /**\n * @param {?}
srcMsg\n * @return {?}\n * \nconvert(srcMsg: i18n.Message): {nodes: html.Node[], errors: I18nError[]}\n {\n
this._srcMsgStack.length = 0;\n this._errors.length = 0;\n // i18n to text\n const /** @type {?} */ text =
this._convertToText(srcMsg);\n // text to html\n const /** @type {?} */ url =
srcMsg.nodes[0].sourceSpan.start.file.url;\n const /** @type {?} */ html = new HtmlParser().parse(text, url,
true);\n\n return {\n nodes: html.rootNodes,\n errors: [...this._errors, ...html.errors],\n }; \n } \n/**\n *
@param {?} text\n * @param {?=} context\n * @return {?}\n * \nvisitText(text: i18n.Text, context?: any): string {\n
return text.value; }\n /**\n * @param {?} container\n * @param {?=} context\n * @return {?}\n
*\nvisitContainer(container: i18n.Container, context?: any): any {\n return container.children.map(n =>
n.visit(this)).join(""); \n } \n/**\n * @param {?} icu\n * @param {?=} context\n * @return {?}\n * \nvisitIcu(icu:
i18n.Icu, context?: any): any {\n const /** @type {?} */ cases = Object.keys(icu.cases).map(k => `${k}
{${icu.cases[k].visit(this)}`);\n // TODO(vicb): Once all format switch to using expression placeholders\n //
we should throw when the placeholder is not in the source message\n const /** @type {?} */ exp =
this._srcMsg.placeholders.hasOwnProperty(icu.expression) ?\n this._srcMsg.placeholders[icu.expression] :\n
icu.expression;\n\n return `${exp}, ${icu.type}, ${cases.join(' ')}'; \n } \n/**\n * @param {?} ph\n * @param
{?=} context\n * @return {?}\n * \nvisitPlaceholder(ph: i18n.Placeholder, context?: any): string {\n const /**
* @type {?} */ phName = ph.name;\n if (this._srcMsg.placeholders.hasOwnProperty(phName)) {\n return
this._srcMsg.placeholders[phName]; \n } \n\n if
(this._srcMsg.placeholderToMessage.hasOwnProperty(phName)) {\n return
this._convertToText(this._srcMsg.placeholderToMessage[phName]); \n } \n\n this._addError(ph, `Unknown
placeholder`);\n return `"; \n } \n/**\n * @param {?} ph\n * @param {?=} context\n * @return {?}\n
*\nvisitTagPlaceholder(ph: i18n.TagPlaceholder, context?: any): any { throw 'unreachable code'; } \n/**\n *
@param {?} ph\n * @param {?=} context\n * @return {?}\n * \nvisitIcuPlaceholder(ph: i18n.IcuPlaceholder,
context?: any): any { throw 'unreachable code'; } \n/**\n * @param {?} srcMsg\n * @return {?}\n * \nprivate
_convertToText(srcMsg: i18n.Message): string {\n const /** @type {?} */ digest = this._digest(srcMsg);\n if
(this._i18nNodesByMsgId.hasOwnProperty(digest)) {\n this._srcMsgStack.push(this._srcMsg);\n
this._srcMsg = srcMsg;\n const /** @type {?} */ nodes = this._i18nNodesByMsgId[digest]; \n const /**
* @type {?} */ text = nodes.map(node => node.visit(this)).join(""); \n this._srcMsg = this._srcMsgStack.pop(); \n
return text; \n } \n\n this._addError(srcMsg.nodes[0], `Missing translation for message ${digest}`);\n return `"; \n
} \n/**\n * @param {?} el\n * @param {?} msg\n * @return {?}\n * \nprivate _addError(el: i18n.Node, msg: string)
{\n this._errors.push(new I18nError(el.sourceSpan, msg)); \n } \n}\n\nfunction
I18nToHtmlVisitor_tsickle_Closure_declarations() {\n /** @type {?} *\nI18nToHtmlVisitor.prototype._srcMsg;\n
/** @type {?} *\nI18nToHtmlVisitor.prototype._srcMsgStack;\n /** @type {?}
*\nI18nToHtmlVisitor.prototype._errors;\n /** @type {?}
*\nI18nToHtmlVisitor.prototype._i18nNodesByMsgId;\n /** @type {?}
*\nI18nToHtmlVisitor.prototype._digest;\n}\n\ninterface DecoratorInvocation {\n type: Function;\n args?:
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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/translation\_bundle.js.map





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{Xtb} from './serializers/xtb';\n\ninterface DecoratorInvocation {\n type: Function;\n args?: any[];\n\n}}
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Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/i18n/index.js.map

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GAAG,CAAC,QAAQ,CAAC,CAAC;IACpF,CAAC;IACH,qBAAC;AAAD,CAAC,AArKD,IAqKC", "sourcesConte
nt":["/*\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed
by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport
{isBlank} from './facade/lang';\n\nexport class ParserError {\n  public message: string;\n  /**\n   * @param {?}
message\n   * @param {?} input\n   * @param {?} errLocation\n   * @param {?=} ctxLocation\n   */\n  constructor(\n
message: string,\n  public input: string,\n  public errLocation: string,\n  public ctxLocation?: any) {\n    this.message =
`Parser Error: ${message} ${errLocation} [${input}] in ${ctxLocation}`;\n  }\n}\n\nfunction
ParserError_tsickle_Closure_declarations() {\n  /** @type {?} */\n  ParserError.prototype.message;\n  /** @type {?}
*/\n  ParserError.prototype.input;\n  /** @type {?} */\n  ParserError.prototype.errLocation;\n  /** @type {?}
*/\n  ParserError.prototype.ctxLocation;\n}\n\nexport class ParseSpan {\n  /**\n   * @param {?} start\n   * @param {?}
end\n   */\n  constructor(public start: number,\n  public end: number) {\n  }\n}\n\nfunction
ParseSpan_tsickle_Closure_declarations() {\n  /** @type {?} */\n  ParseSpan.prototype.start;\n  /** @type {?}
*/\n  ParseSpan.prototype.end;\n}\n\nexport class AST {\n  /**\n   * @param {?} span\n   */\n  constructor(public span:
ParseSpan) {\n  }\n  /**\n   * @param {?} visitor\n   * @param {?=} context\n   * @return {?} */\n  visit(visitor:
AstVisitor, context: any = null): any {\n    return null;\n  }\n  /**\n   * @return {?} */\n  toString(): string {\n    return 'AST';\n  }\n}\n\nfunction AST_tsickle_Closure_declarations() {\n  /** @type {?} */\n  AST.prototype.span;\n}\n\n/**\n * Represents a quoted expression of the form:\n * *\n * quote = prefix ` ` uninterpretedExpression\n * prefix =
identifier\n * uninterpretedExpression = arbitrary string\n * *\n * A quoted expression is meant to be pre-
processed by an AST transformer that\n * converts it into another AST that no longer contains quoted
expressions.\n * It is meant to allow third-party developers to extend Angular template\n * expression language.
The `uninterpretedExpression` part of the quote is\n * therefore not interpreted by the Angular's own expression
parser.\n */\n\nexport class Quote extends AST {\n  /**\n   * @param {?} span\n   * @param {?} prefix\n   * @param {?}
uninterpretedExpression\n   * @param {?} location\n   */\n  constructor(\n    span: ParseSpan,\n  public prefix:
string,\n  public uninterpretedExpression: string,\n  public location: any) {\n    super(span);\n  }\n  /**\n   * @param {?}
visitor\n   * @param {?=} context\n   * @return {?} */\n  visit(visitor: AstVisitor, context: any = null): any {\n    return
visitor.visitQuote(this, context);\n  }\n  /**\n   * @return {?} */\n  toString(): string {\n    return 'Quote';\n  }\n}\n\nfunction
Quote_tsickle_Closure_declarations() {\n  /** @type {?} */\n  Quote.prototype.prefix;\n  /** @type {?}
*/\n  Quote.prototype.uninterpretedExpression;\n  /** @type {?} */\n  Quote.prototype.location;\n}\n\nexport class
EmptyExpr extends AST {\n  /**\n   * @param {?} visitor\n   * @param {?=} context\n   * @return {?} */\n  visit(visitor:
AstVisitor, context: any = null) {\n    // do nothing\n  }\n}\n\nexport class ImplicitReceiver extends
AST {\n  /**\n   * @param {?} visitor\n   * @param {?=} context\n   * @return {?} */\n  visit(visitor: AstVisitor,
context: any = null): any {\n    return visitor.visitImplicitReceiver(this, context);\n  }\n}\n\n/**\n * Multiple
expressions separated by a semicolon.\n */\n\nexport class Chain extends AST {\n  /**\n   * @param {?} span\n   *
@param {?} expressions\n   */\n  constructor(span: ParseSpan,\n  public expressions: any[]) {\n    super(span);\n  }\n  /**\n   *
@param {?} visitor\n   * @param {?=} context\n   * @return {?} */\n  visit(visitor: AstVisitor, context: any = null):
any {\n    return visitor.visitChain(this, context);\n  }\n}\n\nfunction Chain_tsickle_Closure_declarations() {\n  /** @type
? */\n  Chain.prototype.expressions;\n}\n\nexport class Conditional extends AST {\n  /**\n   * @param {?} span\n

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* @param {?} condition\n * @param {?} trueExp\n * @param {?} falseExp\n *\nconstructor(span:
ParseSpan,\npublic condition: AST,\npublic trueExp: AST,\npublic falseExp: AST) {\n  super(span);\n }\n/**\n *
@param {?} visitor\n * @param {?=} context\n * @return {?} *\n * \nvisit(visitor: AstVisitor, context: any = null):
any {\n  return visitor.visitConditional(this, context);\n }\n}\n\nfunction
Conditional_tsickle_Closure_declarations() {\n /** @type {?} *\n *\nConditional.prototype.condition;\n /** @type {?}
*\n *\nConditional.prototype.trueExp;\n /** @type {?} *\n *\nConditional.prototype.falseExp;\n }\n}\n\n\nexport class
PropertyRead extends AST {\n /**\n * @param {?} span\n * @param {?} receiver\n * @param {?} name\n *\n *\nconstructor(span: ParseSpan,\npublic receiver: AST,\npublic name: string) {\n  super(span);\n }\n /**\n * @param
{?} visitor\n * @param {?=} context\n * @return {?} *\n * \nvisit(visitor: AstVisitor, context: any = null): any {\n
return visitor.visitPropertyRead(this, context);\n }\n}\n\nfunction PropertyRead_tsickle_Closure_declarations() {\n
/** @type {?} *\n *\nPropertyRead.prototype.receiver;\n /** @type {?}
*\n *\nPropertyRead.prototype.name;\n }\n}\n\n\nexport class PropertyWrite extends AST {\n /**\n * @param {?} span\n
* @param {?} receiver\n * @param {?} name\n * @param {?} value\n *\n *\nconstructor(span: ParseSpan,\npublic
receiver: AST,\npublic name: string,\npublic value: AST) {\n  super(span);\n }\n /**\n * @param {?} visitor\n *
@param {?=} context\n * @return {?} *\n * \nvisit(visitor: AstVisitor, context: any = null): any {\n  return
visitor.visitPropertyWrite(this, context);\n }\n}\n\nfunction PropertyWrite_tsickle_Closure_declarations() {\n /**
@type {?} *\n *\nPropertyWrite.prototype.receiver;\n /** @type {?} *\n *\nPropertyWrite.prototype.name;\n /** @type
{?} *\n *\nPropertyWrite.prototype.value;\n }\n}\n\n\nexport class SafePropertyRead extends AST {\n /**\n * @param {?}
span\n * @param {?} receiver\n * @param {?} name\n *\n *\nconstructor(span: ParseSpan,\npublic receiver:
AST,\npublic name: string) {\n  super(span);\n }\n /**\n * @param {?} visitor\n * @param {?=} context\n * @return
{?} *\n * \nvisit(visitor: AstVisitor, context: any = null): any {\n  return visitor.visitSafePropertyRead(this,
context);\n }\n}\n\nfunction SafePropertyRead_tsickle_Closure_declarations() {\n /** @type {?}
*\n *\nSafePropertyRead.prototype.receiver;\n /** @type {?} *\n *\nSafePropertyRead.prototype.name;\n }\n}\n\n\nexport
class KeyedRead extends AST {\n /**\n * @param {?} span\n * @param {?} obj\n * @param {?} key\n *\n *\nconstructor(span: ParseSpan,\npublic obj: AST,\npublic key: AST) {\n  super(span);\n }\n /**\n * @param {?}
visitor\n * @param {?=} context\n * @return {?} *\n * \nvisit(visitor: AstVisitor, context: any = null): any {\n
return visitor.visitKeyedRead(this, context);\n }\n}\n\nfunction KeyedRead_tsickle_Closure_declarations() {\n /**
@type {?} *\n *\nKeyedRead.prototype.obj;\n /** @type {?} *\n *\nKeyedRead.prototype.key;\n }\n}\n\n\nexport class
KeyedWrite extends AST {\n /**\n * @param {?} span\n * @param {?} obj\n * @param {?} key\n * @param {?}
value\n *\n *\nconstructor(span: ParseSpan,\npublic obj: AST,\npublic key: AST,\npublic value: AST) {\n  super(span);
}\n /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?} *\n * \nvisit(visitor: AstVisitor, context:
any = null): any {\n  return visitor.visitKeyedWrite(this, context);\n }\n}\n\nfunction
KeyedWrite_tsickle_Closure_declarations() {\n /** @type {?} *\n *\nKeyedWrite.prototype.obj;\n /** @type {?}
*\n *\nKeyedWrite.prototype.key;\n /** @type {?} *\n *\nKeyedWrite.prototype.value;\n }\n}\n\n\nexport class BindingPipe
extends AST {\n /**\n * @param {?} span\n * @param {?} exp\n * @param {?} name\n * @param {?} args\n *\n *\nconstructor(span: ParseSpan,\npublic exp: AST,\npublic name: string,\npublic args: any[]) {\n  super(span);\n
}\n /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?} *\n * \nvisit(visitor: AstVisitor, context:
any = null): any {\n  return visitor.visitPipe(this, context);\n }\n}\n\nfunction
BindingPipe_tsickle_Closure_declarations() {\n /** @type {?} *\n *\nBindingPipe.prototype.exp;\n /** @type {?}
*\n *\nBindingPipe.prototype.name;\n /** @type {?} *\n *\nBindingPipe.prototype.args;\n }\n}\n\n\nexport class
LiteralPrimitive extends AST {\n /**\n * @param {?} span\n * @param {?} value\n *\n *\nconstructor(span:
ParseSpan,\npublic value: any) {\n  super(span);\n }\n /**\n * @param {?} visitor\n * @param {?=} context\n * @return
{?} *\n * \nvisit(visitor: AstVisitor, context: any = null): any {\n  return visitor.visitLiteralPrimitive(this, context);\n
}\n}\n\nfunction LiteralPrimitive_tsickle_Closure_declarations() {\n /** @type {?}
*\n *\nLiteralPrimitive.prototype.value;\n }\n}\n\n\nexport class LiteralArray extends AST {\n /**\n * @param {?} span\n
* @param {?} expressions\n *\n *\nconstructor(span: ParseSpan,\npublic expressions: any[]) {\n  super(span);\n }\n /**\n *
@param {?} visitor\n * @param {?=} context\n * @return {?} *\n * \nvisit(visitor: AstVisitor, context: any = null):
any {\n  return visitor.visitLiteralArray(this, context);\n }\n}\n\nfunction

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LiteralArray_tsickle_Closure_declarations() {\n/** @type {?}
*\nLiteralArray.prototype.expressions;\n}\n\n\nexport class LiteralMap extends AST {\n/**\n * @param {?}
span\n * @param {?} keys\n * @param {?} values\n *\nconstructor(span: ParseSpan,\npublic keys: any[],\npublic
values: any[]) { super(span); }\n/**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n
*\nvisit(visitor: AstVisitor, context: any = null): any {\n return visitor.visitLiteralMap(this, context);\n
}\n}\n\n\nfunction LiteralMap_tsickle_Closure_declarations() {\n/** @type {?} *\nLiteralMap.prototype.keys;\n/**
@type {?} *\nLiteralMap.prototype.values;\n}\n\n\nexport class Interpolation extends AST {\n/**\n * @param {?}
span\n * @param {?} strings\n * @param {?} expressions\n *\nconstructor(span: ParseSpan,\npublic strings:
any[],\npublic expressions: any[]) { super(span); }\n/**\n * @param {?} visitor\n * @param {?=} context\n *
@return {?}\n *\nvisit(visitor: AstVisitor, context: any = null): any {\n return visitor.visitInterpolation(this,
context);\n }\n}\n\n\nfunction Interpolation_tsickle_Closure_declarations() {\n/** @type {?}
*\nInterpolation.prototype.strings;\n/** @type {?} *\nInterpolation.prototype.expressions;\n}\n\n\nexport class
Binary extends AST {\n/**\n * @param {?} span\n * @param {?} operation\n * @param {?} left\n * @param {?}
right\n *\nconstructor(span: ParseSpan,\npublic operation: string,\npublic left: AST,\npublic right: AST) {\n
super(span);\n }\n/**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n *\nvisit(visitor:
AstVisitor, context: any = null): any {\n return visitor.visitBinary(this, context);\n }\n}\n\n\nfunction
Binary_tsickle_Closure_declarations() {\n/** @type {?} *\nBinary.prototype.operation;\n/** @type {?}
*\nBinary.prototype.left;\n/** @type {?} *\nBinary.prototype.right;\n}\n\n\nexport class PrefixNot extends AST
{\n/**\n * @param {?} span\n * @param {?} expression\n *\nconstructor(span: ParseSpan,\npublic expression:
AST) { super(span); }\n/**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n *\nvisit(visitor:
AstVisitor, context: any = null): any {\n return visitor.visitPrefixNot(this, context);\n }\n}\n\n\nfunction
PrefixNot_tsickle_Closure_declarations() {\n/** @type {?} *\nPrefixNot.prototype.expression;\n}\n\n\nexport
class MethodCall extends AST {\n/**\n * @param {?} span\n * @param {?} receiver\n * @param {?} name\n *
@param {?} args\n *\nconstructor(span: ParseSpan,\npublic receiver: AST,\npublic name: string,\npublic args:
any[]) {\n super(span);\n }\n/**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n
*\nvisit(visitor: AstVisitor, context: any = null): any {\n return visitor.visitMethodCall(this, context);\n
}\n}\n\n\nfunction MethodCall_tsickle_Closure_declarations() {\n/** @type {?}
*\nMethodCall.prototype.receiver;\n/** @type {?} *\nMethodCall.prototype.name;\n/** @type {?}
*\nMethodCall.prototype.args;\n}\n\n\nexport class SafeMethodCall extends AST {\n/**\n * @param {?} span\n *
@param {?} receiver\n * @param {?} name\n * @param {?} args\n *\nconstructor(span: ParseSpan,\npublic
receiver: AST,\npublic name: string,\npublic args: any[]) {\n super(span);\n }\n/**\n * @param {?} visitor\n *
@param {?=} context\n * @return {?}\n *\nvisit(visitor: AstVisitor, context: any = null): any {\n return
visitor.visitSafeMethodCall(this, context);\n }\n}\n\n\nfunction SafeMethodCall_tsickle_Closure_declarations() {\n
/** @type {?} *\nSafeMethodCall.prototype.receiver;\n/** @type {?} *\nSafeMethodCall.prototype.name;\n/**
@type {?} *\nSafeMethodCall.prototype.args;\n}\n\n\nexport class FunctionCall extends AST {\n/**\n * @param
 {?} span\n * @param {?} target\n * @param {?} args\n *\nconstructor(span: ParseSpan,\npublic target:
AST,\npublic args: any[]) { super(span); }\n/**\n * @param {?} visitor\n * @param {?=} context\n * @return
 {?}\n *\nvisit(visitor: AstVisitor, context: any = null): any {\n return visitor.visitFunctionCall(this,
context);\n }\n}\n\n\nfunction FunctionCall_tsickle_Closure_declarations() {\n/** @type {?}
*\nFunctionCall.prototype.target;\n/** @type {?} *\nFunctionCall.prototype.args;\n}\n\n\nexport class
ASTWithSource extends AST {\n/**\n * @param {?} ast\n * @param {?} source\n * @param {?} location\n *
@param {?} errors\n *\nconstructor(\npublic ast: AST,\npublic source: string,\npublic location: string,\npublic
errors: ParserError[]) {\n super(new ParseSpan(0, isBlank(source) ? 0 : source.length));\n }\n/**\n * @param
 {?} visitor\n * @param {?=} context\n * @return {?}\n *\nvisit(visitor: AstVisitor, context: any = null): any {
return
this.ast.visit(visitor, context); }\n/**\n * @return {?}\n *\ntoString(): string { return `${this.source} in
${this.location}`; }\n}\n\n\nfunction ASTWithSource_tsickle_Closure_declarations() {\n/** @type {?}
*\nASTWithSource.prototype.ast;\n/** @type {?} *\nASTWithSource.prototype.source;\n/** @type {?}
*\nASTWithSource.prototype.location;\n/** @type {?} *\nASTWithSource.prototype.errors;\n}\n\n\nexport class

```



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TemplateBinding {\n/**\n * @param {?} span\n * @param {?} key\n * @param {?} keyIsVar\n * @param {?} name\n * @param {?} expression\n * ^\nconstructor(\npublic span: ParseSpan,\npublic key: string,\npublic keyIsVar: boolean,\npublic name: string,\npublic expression: ASTWithSource) {} }\n}\n\nfunction
TemplateBinding_tsickle_Closure_declarations() {\n/** @type {?} */\nTemplateBinding.prototype.span;\n/** @type {?} */\nTemplateBinding.prototype.key;\n/** @type {?} */\nTemplateBinding.prototype.keyIsVar;\n/** @type {?} */\nTemplateBinding.prototype.name;\n/** @type {?} */\nTemplateBinding.prototype.expression;\n}\n}\n\nexport interface AstVisitor {\n visitBinary(ast: Binary, context: any): any;\n visitChain(ast: Chain, context: any): any;\n visitConditional(ast: Conditional, context: any): any;\n visitFunctionCall(ast: FunctionCall, context: any): any;\n visitImplicitReceiver(ast: ImplicitReceiver, context: any): any;\n visitInterpolation(ast: Interpolation, context: any): any;\n visitKeyedRead(ast: KeyedRead, context: any): any;\n visitKeyedWrite(ast: KeyedWrite, context: any): any;\n visitLiteralArray(ast: LiteralArray, context: any): any;\n visitLiteralMap(ast: LiteralMap, context: any): any;\n visitLiteralPrimitive(ast: LiteralPrimitive, context: any): any;\n visitMethodCall(ast: MethodCall, context: any): any;\n visitPipe(ast: BindingPipe, context: any): any;\n visitPrefixNot(ast: PrefixNot, context: any): any;\n visitPropertyRead(ast: PropertyRead, context: any): any;\n visitPropertyWrite(ast: PropertyWrite, context: any): any;\n visitQuote(ast: Quote, context: any): any;\n visitSafeMethodCall(ast: SafeMethodCall, context: any): any;\n visitSafePropertyRead(ast: SafePropertyRead, context: any): any;\n}\n\nexport class RecursiveAstVisitor implements AstVisitor {\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitBinary(ast: Binary, context: any): any {\n ast.left.visit(this);\n ast.right.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitChain(ast: Chain, context: any): any {\n return this.visitAll(ast.expressions, context);\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitConditional(ast: Conditional, context: any): any {\n ast.condition.visit(this);\n ast.trueExp.visit(this);\n ast.falseExp.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitPipe(ast: BindingPipe, context: any): any {\n ast.exp.visit(this);\n this.visitAll(ast.args, context);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitFunctionCall(ast: FunctionCall, context: any): any {\n ast.target.visit(this);\n this.visitAll(ast.args, context);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitImplicitReceiver(ast: ImplicitReceiver, context: any): any {\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitInterpolation(ast: Interpolation, context: any): any {\n return this.visitAll(ast.expressions, context);\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitKeyedRead(ast: KeyedRead, context: any): any {\n ast.obj.visit(this);\n ast.key.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitKeyedWrite(ast: KeyedWrite, context: any): any {\n ast.obj.visit(this);\n ast.key.visit(this);\n ast.value.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitLiteralArray(ast: LiteralArray, context: any): any {\n return this.visitAll(ast.expressions, context);\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitLiteralMap(ast: LiteralMap, context: any): any {\n return this.visitAll(ast.values, context);\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitLiteralPrimitive(ast: LiteralPrimitive, context: any): any {\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitMethodCall(ast: MethodCall, context: any): any {\n ast.receiver.visit(this);\n return this.visitAll(ast.args, context);\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitPrefixNot(ast: PrefixNot, context: any): any {\n ast.expression.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitPropertyRead(ast: PropertyRead, context: any): any {\n ast.receiver.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitPropertyWrite(ast: PropertyWrite, context: any): any {\n ast.receiver.visit(this);\n ast.value.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitSafePropertyRead(ast: SafePropertyRead, context: any): any {\n ast.receiver.visit(this);\n return null;\n }\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\nvisitSafeMethodCall(ast: SafeMethodCall, context: any): any {\n ast.receiver.visit(this);\n return this.visitAll(ast.args, context);\n }\n}\n}

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*/\nvisitAll(ast: AST[], context: any): any {\n  asts.forEach(ast => ast.visit(this, context));\n  return null;\n
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitQuote(ast: Quote, context: any): any
{\n  return null;\n}\n\nexport class AstTransformer implements AstVisitor {\n/**\n * @param {?} ast\n * @param
{?} context\n * @return {?} */\n*/\nvisitImplicitReceiver(ast: ImplicitReceiver, context: any): AST {\n  return ast;
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitInterpolation(ast: Interpolation,
context: any): AST {\n  return new Interpolation(ast.span, ast.strings, this.visitAll(ast.expressions));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitLiteralPrimitive(ast: LiteralPrimitive, context:
any): AST {\n  return new LiteralPrimitive(ast.span, ast.value);\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitPropertyRead(ast: PropertyRead, context: any): AST {\n  return new
PropertyRead(ast.span, ast.receiver.visit(this), ast.name);\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitPropertyWrite(ast: PropertyWrite, context: any): AST {\n  return new
PropertyWrite(ast.span, ast.receiver.visit(this), ast.name, ast.value);\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitSafePropertyRead(ast: SafePropertyRead, context: any): AST {\n  return new
SafePropertyRead(ast.span, ast.receiver.visit(this), ast.name);\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitMethodCall(ast: MethodCall, context: any): AST {\n  return new
MethodCall(ast.span, ast.receiver.visit(this), ast.name, this.visitAll(ast.args));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitSafeMethodCall(ast: SafeMethodCall, context: any): AST {\n
return new SafeMethodCall(\n  ast.span, ast.receiver.visit(this), ast.name, this.visitAll(ast.args));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitFunctionCall(ast: FunctionCall, context: any):
AST {\n  return new FunctionCall(ast.span, ast.target.visit(this), this.visitAll(ast.args));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitLiteralArray(ast: LiteralArray, context: any): AST {\n
return new LiteralArray(ast.span, this.visitAll(ast.expressions));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitLiteralMap(ast: LiteralMap, context: any): AST {\n  return new
LiteralMap(ast.span, ast.keys, this.visitAll(ast.values));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitBinary(ast: Binary, context: any): AST {\n  return new Binary(ast.span, ast.operation,
ast.left.visit(this), ast.right.visit(this));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitPrefixNot(ast: PrefixNot, context: any): AST {\n  return new PrefixNot(ast.span,
ast.expression.visit(this));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitConditional(ast: Conditional, context: any): AST {\n  return new Conditional(\n  ast.span,
ast.condition.visit(this), ast.trueExp.visit(this), ast.falseExp.visit(this));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitPipe(ast: BindingPipe, context: any): AST {\n  return new
BindingPipe(ast.span, ast.exp.visit(this), ast.name, this.visitAll(ast.args));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitKeyedRead(ast: KeyedRead, context: any): AST {\n  return new
KeyedRead(ast.span, ast.obj.visit(this), ast.key.visit(this));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitKeyedWrite(ast: KeyedWrite, context: any): AST {\n  return new KeyedWrite(\n
ast.span, ast.obj.visit(this), ast.key.visit(this), ast.value.visit(this));\n }
}\n/**\n * @param {?} asts\n * @param {?} context\n * @return {?} */\n*/\nvisitAll(ast: any[]): any[] {\n  const /** @type {?} */ res = new Array(asts.length);\n  for (let /** @type {?}
*/ i = 0; i < asts.length; ++i) {\n    res[i] = asts[i].visit(this);\n  }\n  return res;\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitChain(ast: Chain, context: any): AST {\n  return new
Chain(ast.span, this.visitAll(ast.expressions));\n }
}\n/**\n * @param {?} ast\n * @param {?} context\n * @return {?} */\n*/\nvisitQuote(ast: Quote, context: any): AST {\n  return new Quote(ast.span, ast.prefix,
ast.uninterpretedExpression, ast.location);\n }
}\n\ninterface DecoratorInvocation {\n  type: Function;\n  args?:
any[];\n}\n"}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/expression\_parser/ast.js.map

No license file was found, but licenses were detected in source scan.

```
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AC,KAAK,YAAY,6BAA6B,CAAC,CAAC,CAAC;gBACnD,KAAK,CAAC,MAAM,CAAC,OAAO,CAAC,UAA  
A,WAAW;oBAC9B,2DAA2D;oBAC3D,IAAM,gBAAgB,CAAC,GAAG,GAAmB,CAAG,WAAsB,CAAC,CAAC;  
oBACxE,MAAM,CAAC,IAAI,CAAC,GAAG,CAAC,CAAC,OAAO,CACpB,UAAA,IAAI,IAAM,eAAe,CAAC,Y  
AAY,CAAC,IAAI,EAAE,IAAI,EAAE,GAAG,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;g  
BACxE,CAAC,CAAC,CAAC;gBACH,gBAAc,GAAG,KAAK,CAAC,MAAM,CAAC;gBAC9B,MAAM,CAAC;Y  
ACT,CAAC;YAED,IAAM,gBAAgB,CAAC,QAAQ,GAAG,yBAAyB,CAAC,KAAK,EAAE,IAAI,EAAE,eAAe,E  
AAE,WAAW,EAAE,MAAM,CAAC,CAAC;YAC/G,EAAE,CAAC,CAAC,SAAS,CAAC,gBAAc,CAAC,CAAC,C  
AAC,CAAC;gBAC9B,EAAE,CAAC,CAAC,KAAK,YAAY,iCAAiC,CAAC,CAAC,CAAC;oBACvD,IAAM,gBA  
AgB,CAAC,cAAc,GAAG,IAAI,kBAakB,CAAC,gBAAc,CAAC,CAAC;oBAC/E,OAAK,CAAC,IAAI,CAAC,IAA  
I,gBAAgB,CAAC,cAAc,EAAE,EAAE,EAAE,CAAC,EAAE,CAAC,EAAE,EAAE,CAAC,CAAC,CAAC;gBACjE,  
CAAC;gBAAC,IAAI,CAAC,CAAC;oBACN,IAAM,gBAAgB,CAAC,SAAS,GAAmB,CAAQb,QAAS,CAAC,CA  
AC;oBACnF,MAAA,SAAS,CAAC,cAAc,CAAC,MAAM,EAAC,IAAI,WAAI,gBAAc,CAAC,CAAC;gBAC1D,C  
AAC;gBACD,gBAAc,GAAG,IAAI,CAAC;YACxB,CAAC;YAED,IAAM,gBAAgB,CAAC,WAAW,GAAG,QAA  
Q,CAAC,QAAQ,CAAC;YACvD,WAAW,IAAI,WAAW,CAAC;YAC3B,QAAQ,IAAI,WAAW,CAAC;YACxB,aA  
AW,GAAG,IAAI,CAAC,GAAG,CAAC,WAAW,EAAE,aAAW,CAAC,CAAC;YACjD,OAAK,CAAC,IAAI,CAA  
C,QAAQ,CAAC,CAAC;;QACvB,CAAC,CAAC,CAAC;QACH,EAAE,CAAC,CAAC,SAAS,CAAC,gBAAc,CAA  
C,CAAC,CAAC,CAAC;YAC9B,IAAM,gBAAgB,CAAC,cAAc,GAAG,IAAI,kBAakB,CAAC,gBAAc,CAAC,CA  
AC;YAC/E,OAAK,CAAC,IAAI,CAAC,IAAI,gBAAgB,CAAC,cAAc,EAAE,EAAE,EAAE,CAAC,EAAE,CAAC,E  
AAE,EAAE,CAAC,CAAC,CAAC;QACjE,CAAC;QACD,EAAE,CAAC,CAAC,SAAO,CAAC,CAAC,CAAC;YA  
CZ,GAAG,GAAG,IAAI,iBAAiB,CAAC,OAAK,CAAC,CAAC;YACnC,QAAQ,GAAG,aAAW,CAAC;YACvB,W  
AAW,GAAG,YAAY,GAAG,QAAQ,CAAC;QACxC,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,GAAG,GAAG,IA  
AI,oBAAoB,CAAC,OAAK,CAAC,CAAC;QACxC,CAAC;IACH,CAAC;IAAC,IAAI,CAAC,EAAE,CAAC,CAAC  
,KAAK,YAAY,+BAA+B,CAAC,CAAC,CAAC;QAC5D,IAAM,gBAAgB,CAAC,OAAO,GAAG,oBAAoB,CAAC,  
KAAK,CAAC,OAAO,EAAE,MAAM,CAAC,CAAC;QAC7E,IAAM,gBAAgB,CAAC,MAAM,GAAG,KAAK,CA  
AC,MAAM,CAAC;QAE7C,IAAI,gBAAgB,CAAC,SAAS,SAAK,CAAmB;QACtD,EAAE,CAAC,CAAC,MAAM,  
YAAY,yCAAyC,CAAC,CAAC,CAAC;YACHe,SAAS;gBACL,wBAAwB,CAAC,MAAM,EAAE,WAAW,EAAE,  
eAAe,EAAE,WAAW,EAAE,MAAM,CAAC,CAAC;QAC1F,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,IAAM,gB  
AAgB,CAAC,SAAS,GAAmB,CAAKc,MAAO,CAAC,CAAC;YAC9F,IAAM,gBAAgB,CAAC,MAAM,GAAG,kB  
AAkB,CAAC;YACnD,IAAM,gBAAgB,CAAC,QAAQ,GAAG,IAAI,kBAakB,CAAE,gBAAgB,CAAA,CAAE,SA  
AS,CAAC,MAAmB,CAAC,CAAC,CAAC;YAC5G,IAAM,gBAAgB,CAAC,QAAQ,GAAG,IAAI,oBAAoB,CAAC  
,MAAM,EAAE,QAAQ,CAAC,CAAC;YAC7E,SAAS,GAAG,CAAC,QAAQ,CAAC,CAAC;QACzB,CAAC;QAE  
D,GAAG,GAAG,IAAI,gBAAgB,CACtB,IAAI,kBAakB,CAAC,EAAE,CAAC,EAAE,SAAS,EAAE,OAAO,CAA  
C,QAAQ,EAAE,OAAO,CAAC,KAAK,EAAE,OAAO,CAAC,MAAM,CAAC,CAAC;QAC5F,QAAQ,GAAG,OAA

O,CAAC,QAAQ,GAAG,OAAO,CAAC,KAAK,CAAC;QAC5C,WAAW,IAAI,QAAQ,CAAC;QAExB,SAAS,CAA  
C,OAAO,CACb,UAAC,QAAa,CAAC,iBAaiB,IAAK,OAAA,QAAQ,CAAC,MAAM,CAAC,MAAM,CAAC,OAA  
O,CAC/D,UAAC,KAAU,CAAC,iBAaiB,IAAK,OAAA,MAAM,CAAC,IAAI,CAAC,KAAK,CAAC,CAAC,OAA  
O,CACxD,UAAA,IAAI,IAAM,eAAe,CAAC,YAAY,CAAC,IAAI,EAAE,WAAW,EAAE,KAAK,CAAC,IAAI,CA  
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AC,IAAI,CAAC,CAAC;QACN,+CAA+C;QAC/C,+DAA+D;QAC/D,eAAe;QACf,GAAG,GAAG,IAAI,gBAAgB,  
CAAC,IAAI,EAAE,EAAE,EAAE,CAAC,EAAE,CAAC,EAAE,EAAE,CAAC,CAAC;IACjD,CAAC;IAED,GAAG  
,CAAC,QAAQ,GAAG,QAAQ,CAAC;IACxB,GAAG,CAAC,SAAS,GAAG,YAAY,CAAC;IAC7B,MAAM,CAAC  
,GAAG,CAAC;AACb,CAAC;AACD;;;;;GAKG;AACH,4CACI,GAAiB,EAAE,eAAiC,EAAE,MAA6B;IACrF,mD  
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,CAAC;QACjD,EAAE,CAAC,CAAC,SAAS,CAAC,MAAM,IAAI,CAAC,CAAC,CAAC,CAAC;YAC1B,IAAM,g  
BAAgB,CAAC,WAAW,GAAG,SAAS,CAAC,CAAC,CAAC,CAAC;YACID,IAAM,gBAAgB,CAAC,aAAa,GAA  
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AM,CAAC,CAAC;YACvE,GAAG,CAAC,SAAS,GAAG,CAAC,aAAa,EAAE,WAAW,CAAC,CAAC;QAC/C,CA  
AC;IACH,CAAC;IAAC,IAAI,CAAC,EAAE,CAAC,CAAC,GAAG,YAAY,qBAaQb,CAAC,CAAC,CAAC;QACh  
D,GAAG,CAAC,KAAK,CAAC,OAAO,CAAC,UAAA,KAAK,IAAI,OAAA,kCAaKc,CAAC,KAAK,EAAE,eAAe  
,EAAE,MAAM,CAAC,EAAIE,CAAKE,CAAC,CAAC;IACjG,CAAC;AACH,CAAC;AACD;;;;;GAIG;AACH,8BA  
CI,GAAoB,EAAE,MAA6B;IACrD,IAAM,gBAAgB,CAAC,KAAK,GAAG,qEAAqE,CAAC;IACrG,IAAI,gBAAg  
B,CAAC,QAAgB,CAAC;IACtC,IAAI,gBAAgB,CAAC,KAAK,GAAW,CAAC,CAAC;IACvC,IAAI,gBAAgB,CA  
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C;QAC5B,IAAM,gBAAgB,CAAC,OAAO,GAAG,GAAG,CAAC,KAAK,CAAC,KAAK,CAAC,CAAC;QACID,E  
AAE,CAAC,CAAC,OAAO,KAAK,IAAI,CAAC,CAAC,CAAC;YACrB,MAAM,CAAC,IAAI,CAAC,IAAI,mBAA  
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,WAAW,CAAC;QAC/B,CAAC;QACD,QAAQ,GAAG,IAAI,CAAC,KAAK,CAAC,aAAa,CAAC,CAAC;QAErC,I  
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CAAC,CAAC;YAC1B,IAAI,gBAAgB,CAAC,QAAQ,GAAW,UAAU,CAAC,UAAU,CAAC,CAAC;YAC/D,EAA  
E,CAAC,CAAC,SAAS,CAAC,SAAS,CAAC,IAAI,SAAS,IAAI,GAAG,CAAC,CAAC,CAAC;gBAC7C,QAAQ,IA  
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/B,CAAC;QAED,IAAM,gBAAgB,CAAC,SAAS,GAAG,OAAO,CAAC,CAAC,CAAC,CAAC;QAC9C,EAAE,CA  
AC,CAAC,CAAC,OAAO,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC;YACxB,MAAM,GAAG,SAAS,CAAC;QA  
CrB,CAAC;IACH,CAAC;IAAC,IAAI,CAAC,CAAC;QACN,QAAQ,GAAMB,CAAW,GAAL,CAAC,CAAC;IAC9  
C,CAAC;IAED,MAAM,CAAC,IAAI,iBAaiB,CAAC,QAAQ,EAAE,KAAK,EAAE,MAAM,CAAC,CAAC;AACx  
D,CAAC;AACD;;;;;GAOG;AACH,6CACI,WAAiC,EAAE,SAaiB,EAAE,QAAgB,EACtE,eAAiC,EAAE,MAA6  
B;IACIE,IAAM,gBAAgB,CAAC,MAAM,GAAW,EAAE,CAAC;IAC3C,IAAM,gBAAgB,CAAC,OAAO,GAAG,S  
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QACID,MAAM,CAAC,IAAI,CAAC,SAAS,CAAC,CAAC,OAAO,CAAC,UAAA,IAAI;YACjC,IAAM,gBAAgB,C  
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AE,SAAS,CAAC,CAAC;YAC5F,IAAI,gBAAgB,CAAC,WAAgB,CAAC,iBAaiB,EAAE,gBAAgB,CAAC,SAAC,  
CAAC,iBAaiB,EAAE,gBAAgB,CACxH,KAAU,CAAmB;YACjC,EAAE,CAAC,CAAC,SAAS,CAAC,WAAW,C  
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C,IAAI,EAAE,WAAW,GAAG,CAAC,CAAC,CAAC;YACHe,CAAC;YAAC,IAAI,CAAC,CAAC;gBACN,oDAAo



```

D;gBACpD,sDAAsD;gBACtD,wDAAwD;gBACxD,KAAK,GAAG,eAAe,CAAC;YAC1B,CAAC;YAED,EAAE,C
AAC,CAAC,SAAS,CAAC,SAAS,CAAC,IAAI,CAAC,SAAS,CAAC,OAAO,CAAC,OAAO,EAAE,GAAG,CAAC,
CAAC,CAAC,CAAC;gBAC7D,MAAM,CAAC,IAAI,CAAC,IAAI,mBAAmB,CAC/B,iCAA8B,IAAI,gDAAyC,W
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ED,MAAM,CAAC,IAAI,CAAC,GAAG,KAAK,CAAC;QACvB,CAAC,CAAC,CAAC;IACL,CAAC,CAAC,CAA
C;IAEH,MAAM,CAAC,IAAI,oBAAoB,CAAC,iBAAiB,EAAE,IAAI,kBAaKB,CAAC,CAAC,MAAM,CAAC,CA
AC,CAAC,CAAC;AACvF,CAAC", "sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\nimport {CompileAnimationAnimateMetadata,
CompileAnimationEntryMetadata, CompileAnimationGroupMetadata,
CompileAnimationKeyframesSequenceMetadata, CompileAnimationMetadata,
CompileAnimationSequenceMetadata, CompileAnimationStateDeclarationMetadata,
CompileAnimationStateTransitionMetadata, CompileAnimationStyleMetadata,
CompileAnimationWithStepsMetadata, CompileDirectiveMetadata, identifierName} from
'./compile_metadata';\nimport {StringMapWrapper} from './facade/collection';\nimport {isBlank, isPresent} from
'./facade/lang';\nimport {CompilerInjectable} from './injectable';\nimport {ParseError} from './parse_util';\nimport
{ANY_STATE, FILL_STYLE_FLAG} from './private_import_core';\nimport {ElementSchemaRegistry} from
'./schema/element_schema_registry';\n\nimport {AnimationAst, AnimationEntryAst, AnimationGroupAst,
AnimationKeyframeAst, AnimationSequenceAst, AnimationStateDeclarationAst, AnimationStateTransitionAst,
AnimationStateTransitionExpression, AnimationStepAst, AnimationStylesAst, AnimationWithStepsAst} from
'./animation_ast';\nimport {StylesCollection} from './styles_collection';\n\nconst /** @type {?} */
_INITIAL_KEYFRAME = 0;\nconst /** @type {?} */ _TERMINAL_KEYFRAME = 1;\nconst /** @type {?} */
_ONE_SECOND = 1000;\n\ndeclare type Styles = {\n [key: string]: string | number;\n};\n\nexport class
AnimationParseError extends ParseError {\n/**\n * @param {?} message\n *\nconstructor(message: string) {\n
super(null, message);\n}\n/**\n * @return {?} \n *\nntoString(): string { return `${this.msg}`;\n}\n}\n\nexport class
AnimationEntryParseResult {\n/**\n * @param {?} ast\n * @param {?} errors\n *\nconstructor(public ast:
AnimationEntryAst,\npublic errors: AnimationParseError[]) {\n}\n}\n\nfunction
AnimationEntryParseResult_tsickle_Closure_declarations() {\n/** @type {?}
*\n\nAnimationEntryParseResult.prototype.ast;\n/** @type {?}
*\n\nAnimationEntryParseResult.prototype.errors;\n}\n\n\n@CompilerInjectable()\nexport class AnimationParser
{\n/**\n * @param {?} _schema\n *\nconstructor(private _schema: ElementSchemaRegistry) {\n}\n/**\n * @param
{?} component\n * @return {?} \n *\nparseComponent(component: CompileDirectiveMetadata):
AnimationEntryAst[] {\n const /** @type {?} */ errors: string[] = [];\n const /** @type {?} */ componentName
= identifierName(component.type);\n const /** @type {?} */ animationTriggerNames = new Set<string>();\n
const /** @type {?} */ asts = component.template.animations.map(entry => {\n const /** @type {?} */ result =
this.parseEntry(entry);\n const /** @type {?} */ ast = result.ast;\n const /** @type {?} */ triggerName =
ast.name;\n if (animationTriggerNames.has(triggerName)) {\n result.errors.push(new
AnimationParseError(\n `The animation trigger \"${triggerName}\" has already been registered for the
${componentName} component`);\n } else {\n animationTriggerNames.add(triggerName);\n }\n if
(result.errors.length > 0) {\n let /** @type {?} */ errorMessage =\n ` - Unable to parse the animation
sequence for \"${triggerName}\" on the ${componentName} component due to the following errors:`;\n
result.errors.forEach(\n (error: AnimationParseError) => { errorMessage += "\n-- ' + error.msg; });\n
errors.push(errorMessage);\n }\n return ast;\n });\n\n if (errors.length > 0) {\n const /** @type {?} */
errorString = errors.join("\n");\n throw new Error(`Animation parse errors:\n${errorString}`);\n }\n\n return
asts;\n }\n/**\n * @param {?} entry\n * @return {?} \n *\nparseEntry(entry: CompileAnimationEntryMetadata):
AnimationEntryParseResult {\n const /** @type {?} */ errors: AnimationParseError[] = [];\n const /** @type
{?} */ stateStyles: {[key: string]: AnimationStylesAst} = {};\n const /** @type {?} */ transitions:
CompileAnimationStateTransitionMetadata[] = [];\n\n const /** @type {?} */ stateDeclarationAsts:

```

```

AnimationStateDeclarationAst[] = [];
entry.definitions.forEach(def => {
  if (def instanceof CompileAnimationStateDeclarationMetadata) {
    _parseAnimationDeclarationStates(def, this._schema, errors).forEach(ast => {
      stateDeclarationAsts.push(ast);
      stateStyles[ast.stateName] = ast.styles;
    });
  } else {
    transitions.push(/** @type {?} */((<CompileAnimationStateTransitionMetadata>def));
  });
  const /** @type {?} */ stateTransitionAsts = transitions.map(transDef =>
    _parseAnimationStateTransition(transDef, stateStyles, this._schema, errors));
  const /** @type {?} */ ast = new AnimationEntryAst(entry.name, stateDeclarationAsts, stateTransitionAsts);
  return new AnimationEntryParseResult(ast, errors);
});
function AnimationParser_tsickle_Closure_declarations() {
  /** @type {?} */ AnimationParser.prototype._schema;
  /** @param {?} stateMetadata */
  /** @param {?} schema */
  /** @param {?} errors */
  /** @return {?} */
  /** @param {?} stateMetadata: CompileAnimationStateDeclarationMetadata, schema: ElementSchemaRegistry, errors: AnimationParseError[] */
  AnimationStateDeclarationAst[] {
    const /** @type {?} */ normalizedStyles = _normalizeStyleMetadata(stateMetadata.styles, { }, schema, errors, false);
    const /** @type {?} */ defStyles = new AnimationStylesAst(normalizedStyles);
    const /** @type {?} */ states = stateMetadata.stateNameExpr.split(/s*/);
    return states.map(state => new AnimationStateDeclarationAst(state, defStyles);
  });
  /** @param {?} transitionStateMetadata */
  /** @param {?} stateStyles */
  /** @param {?} schema */
  /** @param {?} errors */
  /** @return {?} */
  /** @param {?} transitionStateMetadata: CompileAnimationStateTransitionMetadata, stateStyles: {[key: string]: AnimationStylesAst}, schema: ElementSchemaRegistry, errors: AnimationParseError[] */
  AnimationStateTransitionAst {
    const /** @type {?} */ styles = new StylesCollection();
    const /** @type {?} */ transitionExprs: AnimationStateTransitionExpression[] = [];
    const /** @type {?} */ transitionStates = transitionStateMetadata.stateChangeExpr.split(/s*/);
    transitionStates.forEach(expr => {
      transitionExprs.push(..._parseAnimationTransitionExpr(expr, errors));
    });
    const /** @type {?} */ entry = _normalizeAnimationEntry(transitionStateMetadata.steps);
    const /** @type {?} */ animation = _normalizeStyleSteps(entry, stateStyles, schema, errors);
    const /** @type {?} */ animationAst = _parseTransitionAnimation(animation, 0, styles, stateStyles, errors);
    if (errors.length == 0) {
      _fillAnimationAstStartingKeyframes(animationAst, styles, errors);
    }
    const /** @type {?} */ stepsAst: AnimationWithStepsAst = (animationAst instanceof AnimationWithStepsAst) ? animationAst : new AnimationSequenceAst([animationAst]);
    return new AnimationStateTransitionAst(transitionExprs, stepsAst);
  });
  /** @param {?} alias */
  /** @param {?} errors */
  /** @return {?} */
  /** @param {?} alias: string, errors: AnimationParseError[] */
  string {
    switch (alias) {
      case 'enter':
        return 'void => *';
      case 'leave':
        return '* => void';
      default:
        errors.push(new AnimationParseError(`the transition alias value "${alias}" is not supported`));
        return '* => *';
    }
  });
  /** @param {?} eventStr */
  /** @param {?} errors */
  /** @return {?} */
  /** @param {?} eventStr: string, errors: AnimationParseError[] */
  AnimationStateTransitionExpression[] {
    const /** @type {?} */ expressions: AnimationStateTransitionExpression[] = [];
    if (eventStr[0] == ':') {
      eventStr = _parseAnimationAlias(eventStr, errors);
    }
    const /** @type {?} */ match = eventStr.match(/^(\\*|[-\\w]+)s*(<?[->|\\s*(\\*|[-\\w]+)$)/);
    if (!isPresent(match) || match.length < 4) {
      errors.push(new AnimationParseError(`the provided ${eventStr} is not of a supported format`));
      return expressions;
    }
    const /** @type {?} */ fromState = match[1];
    const /** @type {?} */ separator = match[2];
    const /** @type {?} */ toState = match[3];
    expressions.push(new AnimationStateTransitionExpression(fromState, toState));
    const /** @type {?} */ isFullAnyStateExpr = fromState == ANY_STATE && toState == ANY_STATE;
    if (separator[0] == '<' && isFullAnyStateExpr) {
      expressions.push(new AnimationStateTransitionExpression(toState, fromState));
    }
    return expressions;
  });
  /** @param {?} entry */
  /** @return {?} */
  /** @param {?} entry: CompileAnimationMetadata | CompileAnimationMetadata[] */
  CompileAnimationMetadata {
    return Array.isArray(entry) ? new CompileAnimationSequenceMetadata(entry) : entry;
  });
  /** @param {?} entry */
  /** @param {?} stateStyles */
  /** @param {?} schema */
  /** @param {?} errors */
  /** @param {?} permitStateReferences */
  /** @return {?} */
  /** @param {?} entry: CompileAnimationMetadata | CompileAnimationMetadata[], stateStyles: AnimationStylesAst, schema: ElementSchemaRegistry, errors: AnimationParseError[], permitStateReferences: boolean */
  AnimationStateDeclarationAst[] {
    return new AnimationStateDeclarationAst(entry, stateStyles, schema, errors, permitStateReferences);
  });
}

```

```

_normalizeStyleMetadata(\n  entry: CompileAnimationStyleMetadata, stateStyles: {[key: string]:
AnimationStylesAst},\n  schema: ElementSchemaRegistry, errors: AnimationParseError[],\n
permitStateReferences: boolean): {[key: string]: string | number}[] {\n  const /** @type {?} */ offset =
entry.offset;\n  if (offset > 1 || offset < 0) {\n    errors.push(new AnimationParseError(`Offset values for animations
must be between 0 and 1`));\n  }\n  const /** @type {?} */ normalizedStyles: {[key: string]: string | number}[] =
[];\n  entry.styles.forEach(styleEntry => {\n    if (typeof styleEntry === 'string') {\n      if (permitStateReferences)
{\n        normalizedStyles.push(..._resolveStylesFromState(/** @type {?} */(<string>styleEntry), stateStyles,
errors));\n      } else {\n        errors.push(new AnimationParseError(`State based animations cannot contain
references to other states`));\n      }\n    } else {\n      const /** @type {?} */ stylesObj = /** @type {?} */((
<Styles>styleEntry));\n      const /** @type {?} */ normalizedStylesObj: Styles = {};\n      Object.keys(stylesObj).forEach(propName => {\n        const /** @type {?} */ normalizedProp =
schema.normalizeAnimationStyleProperty(propName);\n        const /** @type {?} */ normalizedOutput =\n        schema.normalizeAnimationStyleValue(normalizedProp, propName, stylesObj[propName]);\n        const /** @type
{?} */ normalizationError = normalizedOutput['error'];\n        if (normalizationError) {\n          errors.push(new
AnimationParseError(normalizationError));\n        }\n        normalizedStylesObj[normalizedProp] =
normalizedOutput['value'];\n      });\n      normalizedStyles.push(normalizedStylesObj);\n    }\n  });\n  return
normalizedStyles;\n}\n\n/**\n * @param {?} entry\n * @param {?} stateStyles\n * @param {?} schema\n * @param
{?} errors\n * @return {?} */\n * ^\nfunction _normalizeStyleSteps(\n  entry: CompileAnimationMetadata,
stateStyles: {[key: string]: AnimationStylesAst},\n  schema: ElementSchemaRegistry, errors:
AnimationParseError[]): CompileAnimationMetadata {\n  const /** @type {?} */ steps =
_normalizeStyleStepEntry(entry, stateStyles, schema, errors);\n  return (entry instanceof
CompileAnimationGroupMetadata) ?\n    new CompileAnimationGroupMetadata(steps) :\n    new
CompileAnimationSequenceMetadata(steps);\n}\n\n/**\n * @param {?} stylesList\n * @param {?} newItem\n *
@return {?} */\n * ^\nfunction _mergeAnimationStyles(\n  stylesList: any[], newItem: {[key: string]: string | number
| string}) {\n  if (typeof newItem === 'object' && newItem !== null && stylesList.length > 0) {\n    const /** @type
{?} */ lastIndex = stylesList.length - 1;\n    const /** @type {?} */ lastItem = stylesList[lastIndex];\n    if (typeof
lastItem === 'object' && lastItem !== null) {\n      stylesList[lastIndex] = StringMapWrapper.merge(/** @type {?} */
*/((\n      <{[key: string]: string | number}>lastItem)), /** @type {?} */((<{[key: string]: string |
number}>newItem)));;\n      return;\n    }\n  }\n  stylesList.push(newItem);\n}\n\n/**\n * @param {?} entry\n *
@param {?} stateStyles\n * @param {?} schema\n * @param {?} errors\n * @return {?} */\n * ^\nfunction
_normalizeStyleStepEntry(\n  entry: CompileAnimationMetadata, stateStyles: {[key: string]:
AnimationStylesAst},\n  schema: ElementSchemaRegistry, errors: AnimationParseError[]):
CompileAnimationMetadata[] {\n  let /** @type {?} */ steps: CompileAnimationMetadata[];\n  if (entry instanceof
CompileAnimationWithStepsMetadata) {\n    steps = entry.steps;\n  } else {\n    return [entry];\n  }\n  const /**
@type {?} */ newSteps: CompileAnimationMetadata[] = [];\n  let /** @type {?} */ combinedStyles: Styles[];\n  steps.forEach(step => {\n    if (step instanceof CompileAnimationStyleMetadata) {\n      // this occurs when a style
step is followed by a previous style step\n      // or when the first style step is run. We want to concatenate all
subsequent\n      // style steps together into a single style step such that we have the correct\n      // starting keyframe
data to pass into the animation player.\n      if (!isPresent(combinedStyles)) {\n        combinedStyles = [];\n      }\n      _normalizeStyleMetadata(/** @type {?} */((\n        <CompileAnimationStyleMetadata>step)), stateStyles,
schema, errors, true)\n        .forEach(entry => { _mergeAnimationStyles(combinedStyles, entry); });\n    } else {\n      // it is important that we create a metadata entry of the combined styles\n      // before we go on an process the
animate, sequence or group metadata steps.\n      // This will ensure that the AST will have the previous styles
painted on\n      // screen before any further animations that use the styles take place.\n      if
(isPresent(combinedStyles)) {\n        newSteps.push(new CompileAnimationStyleMetadata(0, combinedStyles));\n       
combinedStyles = null;\n      }\n      if (step instanceof CompileAnimationAnimateMetadata) {\n        // we do not
recurse into CompileAnimationAnimateMetadata since\n        // those style steps are not going to be squashed\n        const /** @type {?} */ animateStyleValue = (/** @type {?} */

```

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*/((<CompileAnimationAnimateMetadata>step))).styles;\n    if (animateStyleValue instanceof
CompileAnimationStyleMetadata) {\n    animateStyleValue.styles =\n    _normalizeStyleMetadata(animateStyleValue, stateStyles, schema, errors, true);\n    } else if (animateStyleValue
instanceof CompileAnimationKeyframesSequenceMetadata) {\n    animateStyleValue.steps.forEach(step => {\n
    step.styles = _normalizeStyleMetadata(step, stateStyles, schema, errors, true);\n    });\n    }\n    } else if
(step instanceof CompileAnimationWithStepsMetadata) {\n    const /** @type {?} */ innerSteps =
_normalizeStyleStepEntry(step, stateStyles, schema, errors);\n    step = step instanceof
CompileAnimationGroupMetadata ?\n    new CompileAnimationGroupMetadata(innerSteps) :\n    new
CompileAnimationSequenceMetadata(innerSteps);\n    }\n    newSteps.push(step);\n    });\n    }\n    // this
happens when only styles were animated within the sequence\n    if (isPresent(combinedStyles)) {\n
newSteps.push(new CompileAnimationStyleMetadata(0, combinedStyles));\n    }\n    return newSteps;\n    }\n    /**\n    * @param {?} stateName\n    * @param {?} stateStyles\n    * @param {?} errors\n    * @return {?} */\n    function
_resolveStylesFromState(\n    stateName: string, stateStyles: {[key: string]: AnimationStylesAst},\n    errors:
AnimationParseError[]) {\n    const /** @type {?} */ styles: Styles[] = [];\n    if (stateName[0] != ':') {\n
errors.push(new AnimationParseError(` Animation states via styles must be prefixed with a ':'`));\n    } else {\n
const /** @type {?} */ normalizedStateName = stateName.substring(1);\n    const /** @type {?} */ value =
stateStyles[normalizedStateName];\n    if (!isPresent(value)) {\n    errors.push(new AnimationParseError(`\n
Unable to apply styles due to missing a state: ` + normalizedStateName + ``));\n    } else {\n
value.styles.forEach(stylesEntry => {\n    if (typeof stylesEntry === 'object' && stylesEntry !== null) {\n
styles.push(/** @type {?} */ ((stylesEntry as Styles)));;\n    });\n    });\n    }\n    return styles;\n    }\n    \n    class
_AnimationTimings {\n    /**\n    * @param {?} duration\n    * @param {?} delay\n    * @param {?} easing\n    *
*\n    constructor(public duration: number,\n    public delay: number,\n    public easing: string) {\n    }\n    \n    function
_AnimationTimings_tsickle_Closure_declarations() {\n    /** @type {?}
*\n    *\n    _AnimationTimings.prototype.duration;\n    /** @type {?} */\n    _AnimationTimings.prototype.delay;\n    /** @type
{?} */\n    _AnimationTimings.prototype.easing;\n    }\n    \n    /**\n    * @param {?} keyframeSequence\n    * @param {?}
currentTime\n    * @param {?} collectedStyles\n    * @param {?} stateStyles\n    * @param {?} errors\n    * @return {?} */\n
*\n    function _parseAnimationKeyframes(\n    keyframeSequence: CompileAnimationKeyframesSequenceMetadata,\n
currentTime: number,\n    collectedStyles: StylesCollection, stateStyles: {[key: string]: AnimationStylesAst},\n
errors: AnimationParseError[]): AnimationKeyframeAst[] {\n    const /** @type {?} */ totalEntries =
keyframeSequence.steps.length;\n    let /** @type {?} */ totalOffsets = 0;\n    keyframeSequence.steps.forEach(step
=> totalOffsets += (isPresent(step.offset) ? 1 : 0));\n    \n    if (totalOffsets > 0 && totalOffsets < totalEntries) {\n
errors.push(new AnimationParseError(`\n    `Not all style() entries contain an offset for the provided
keyframe(``));\n    totalOffsets = totalEntries;\n    }\n    \n    let /** @type {?} */ limit = totalEntries - 1;\n    const /**
@type {?} */ margin = totalOffsets == 0 ? (1 / limit) : 0;\n    const /** @type {?} */ rawKeyframes: any[] /** TODO
#9100 */ = [];\n    let /** @type {?} */ index = 0;\n    let /** @type {?} */ doSortKeyframes = false;\n    let /** @type
{?} */ lastOffset = 0;\n    keyframeSequence.steps.forEach(styleMetadata => {\n    let /** @type {?} */ offset =
styleMetadata.offset;\n    const /** @type {?} */ keyframeStyles: Styles = {};\n
styleMetadata.styles.forEach(entry => {\n    Object.keys(entry).forEach(prop => {\n    if (prop != 'offset') {\n
keyframeStyles[prop] = (/** @type {?} */ ((entry as Styles)))[prop];\n    });\n    });\n    \n    if
(isPresent(offset)) {\n    doSortKeyframes = doSortKeyframes || (offset < lastOffset);\n    } else {\n    offset =
index == limit ? _TERMINAL_KEYFRAME : (margin * index);\n    });\n    \n    rawKeyframes.push([offset,
keyframeStyles]);\n    lastOffset = offset;\n    index++;\n    });\n    \n    if (doSortKeyframes) {\n    rawKeyframes.sort((a,
b) => a[0] <= b[0] ? -1 : 1);\n    }\n    \n    let /** @type {?} */ firstKeyframe = rawKeyframes[0];\n    if (firstKeyframe[0]
!= _INITIAL_KEYFRAME) {\n    rawKeyframes.splice(0, 0, firstKeyframe = [_INITIAL_KEYFRAME, {}]);\n
}\n    \n    const /** @type {?} */ firstKeyframeStyles = firstKeyframe[1];\n    limit = rawKeyframes.length - 1;\n    let /**
@type {?} */ lastKeyframe = rawKeyframes[limit];\n    if (lastKeyframe[0] != _TERMINAL_KEYFRAME) {\n
rawKeyframes.push(lastKeyframe = [_TERMINAL_KEYFRAME, {}]);\n    limit++;\n    }\n    \n    const /** @type {?}
*/ lastKeyframeStyles = lastKeyframe[1];\n    for (let /** @type {?} */ i = 1; i <= limit; i++) {\n    const /** @type

```



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collectedStyles\n * @param {?} errors\n * @return {?} \n *\nfunction _fillAnimationAstStartingKeyframes(\n ast:
AnimationAst, collectedStyles: StylesCollection, errors: AnimationParseError[]): void {\n // steps that only contain
style will not be filled\n if ((ast instanceof AnimationStepAst) && ast.keyframes.length > 0) {\n const /** @type
{?} */ keyframes = ast.keyframes;\n if (keyframes.length == 1) {\n const /** @type {?} */ endKeyframe =
keyframes[0];\n const /** @type {?} */ startKeyframe = _createStartKeyframeFromEndKeyframe(\n
endKeyframe, ast.startTime, ast.playTime, collectedStyles, errors);\n ast.keyframes = [startKeyframe,
endKeyframe];\n }\n } else if (ast instanceof AnimationWithStepsAst) {\n ast.steps.forEach(entry =>
_fillAnimationAstStartingKeyframes(entry, collectedStyles, errors));\n }\n}\n\n/** \n * @param {?} exp\n * @param
{?} errors\n * @return {?} \n *\nfunction _parseTimeExpression(\n exp: string | number, errors:
AnimationParseError[]): _AnimationTimings {\n const /** @type {?} */ regex =
/^(?!(\\.|\\d+)(m?s)(?:\\s+(?!(\\.|\\d+)(m?s))?(?:\\s+([-a-z]+(?:\\.(?!\\.)))?)?)?/i;\n let /** @type {?} */ duration: number;\n
let /** @type {?} */ delay: number = 0;\n let /** @type {?} */ easing: string = null;\n if (typeof exp === 'string')
{\n const /** @type {?} */ matches = exp.match(regex);\n if (matches === null) {\n errors.push(new
AnimationParseError(`The provided timing value \"${exp}\" is invalid.`));\n return new _AnimationTimings(0,
0, null);\n }\n\n let /** @type {?} */ durationMatch = parseFloat(matches[1]);\n const /** @type {?} */
durationUnit = matches[2];\n if (durationUnit === 's') {\n durationMatch *= _ONE_SECOND;\n }\n
duration = Math.floor(durationMatch);\n\n const /** @type {?} */ delayMatch = matches[3];\n const /** @type
{?} */ delayUnit = matches[4];\n if (isPresent(delayMatch)) {\n let /** @type {?} */ delayVal: number =
parseFloat(delayMatch);\n if (isPresent(delayUnit) && delayUnit === 's') {\n delayVal *=
_ONE_SECOND;\n }\n delay = Math.floor(delayVal);\n }\n\n const /** @type {?} */ easingVal =
matches[5];\n if (!isBlank(easingVal)) {\n easing = easingVal;\n }\n } else {\n duration = /** @type {?}
*/ ((<number>exp));\n }\n\n return new _AnimationTimings(duration, delay, easing);\n}\n\n\n * @param {?}
endKeyframe\n * @param {?} startTime\n * @param {?} duration\n * @param {?} collectedStyles\n * @param
{?} errors\n * @return {?} \n *\nfunction _createStartKeyframeFromEndKeyframe(\n endKeyframe:
AnimationKeyframeAst, startTime: number, duration: number,\n collectedStyles: StylesCollection, errors:
AnimationParseError[]): AnimationKeyframeAst {\n const /** @type {?} */ values: Styles = {};\n const /**
@type {?} */ endTime = startTime + duration;\n endKeyframe.styles.styles.forEach((styleData: Styles) => {\n
Object.keys(styleData).forEach(prop => {\n const /** @type {?} */ val = styleData[prop];\n if (prop ==
'offset') return;\n\n const /** @type {?} */ resultIndex = collectedStyles.indexOfAtOrBeforeTime(prop,
startTime);\n let /** @type {?} */ resultEntry: any /** TODO #9100 */ , /** @type {?} */ nextEntry: any /**
TODO #9100 */ , /** @type {?} */\n value: any /** TODO #9100 */ ;\n if (isPresent(resultIndex)) {\n
resultEntry = collectedStyles.getByIndex(prop, resultIndex);\n value = resultEntry.value;\n nextEntry =
collectedStyles.getByIndex(prop, resultIndex + 1);\n } else {\n // this is a flag that the runtime code uses to
pass\n // in a value either from the state declaration styles\n // or using the AUTO_STYLE value (e.g.
getComputedStyle)\n value = FILL_STYLE_FLAG;\n }\n\n if (isPresent(nextEntry) &&
!nextEntry.matches(endTime, val)) {\n errors.push(new AnimationParseError(\n `The animated CSS
property \"${prop}\" unexpectedly changes between steps \"${resultEntry.time}ms\" and \"${endTime}ms\" at
\"${nextEntry.time}ms\"`));\n }\n\n values[prop] = value;\n });\n }\n\n return new
AnimationKeyframeAst(_INITIAL_KEYFRAME, new AnimationStylesAst([values]));\n}\n\n\ninterface
DecoratorInvocation {\n type: Function;\n args?: any[];\n}\n}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/animation/animation\_parser.js.map

No license file was found, but licenses were detected in source scan.

```

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mpiler.ts"],"names":[],"mappings":"AAAA;:::GAMG;:::OAEI,EAAC,iBAAiB,EAAC,MAAM,eAAe;OAEExC,

```

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@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport
{ViewEncapsulation} from '@angular/core';\n\nimport {CompileDirectiveMetadata, CompileIdentifierMetadata,
CompileStylesheetMetadata, identifierModuleUrl, identifierName} from './compile_metadata';\nimport
{CompilerInjectable} from './injectable';\nimport * as o from './output/output_ast';\nimport {ShadowCss} from
 './shadow_css';\nimport {UrlResolver} from './url_resolver';\n\nconst /** @type {?} */ COMPONENT_VARIABLE
= '%COMP%';\nconst /** @type {?} */ HOST_ATTR = `_ngHost-${COMPONENT_VARIABLE}`;\nconst /**
@type {?} */ CONTENT_ATTR = `_ngcontent-${COMPONENT_VARIABLE}`;\n\nexport class
StylesCompileDependency {\n/**\n * @param {?} name\n * @param {?} moduleUrl\n * @param {?} isShimmed\n
 * @param {?} valuePlaceholder\n *\nconstructor(\npublic name: string,\npublic moduleUrl: string,\npublic
isShimmed: boolean,\npublic valuePlaceholder: CompileIdentifierMetadata) {\n}\n\nfunction
StylesCompileDependency_tsickle_Closure_declarations() {\n/** @type {?}
*\nStylesCompileDependency.prototype.name;\n/** @type {?}
*\nStylesCompileDependency.prototype.moduleUrl;\n/** @type {?}
*\nStylesCompileDependency.prototype.isShimmed;\n/** @type {?}
*\nStylesCompileDependency.prototype.valuePlaceholder;\n}\n\nexport class StylesCompileResult {\n/**\n *
@param {?} componentStylesheet\n * @param {?} externalStylesheets\n *\nconstructor(\npublic
componentStylesheet: CompiledStylesheet,\npublic externalStylesheets: CompiledStylesheet[]) {\n}\n\nfunction
StylesCompileResult_tsickle_Closure_declarations() {\n/** @type {?}
*\nStylesCompileResult.prototype.componentStylesheet;\n/** @type {?}
*\nStylesCompileResult.prototype.externalStylesheets;\n}\n\nexport class CompiledStylesheet {\n/**\n *
@param {?} statements\n * @param {?} stylesVar\n * @param {?} dependencies\n * @param {?} isShimmed\n
 * @param {?} meta\n *\nconstructor(\npublic statements: o.Statement[],\npublic stylesVar: string,\npublic
dependencies: StylesCompileDependency[],\npublic isShimmed: boolean,\npublic meta:
CompileStylesheetMetadata) {\n}\n\nfunction CompiledStylesheet_tsickle_Closure_declarations() {\n/** @type
{?} *\nCompiledStylesheet.prototype.statements;\n/** @type {?} *\nCompiledStylesheet.prototype.stylesVar;\n
/** @type {?} *\nCompiledStylesheet.prototype.dependencies;\n/** @type {?}
*\nCompiledStylesheet.prototype.isShimmed;\n/** @type {?}
*\nCompiledStylesheet.prototype.meta;\n}\n\n@CompilerInjectable()\nexport class StyleCompiler {\nprivate
_shadowCss: ShadowCss = new ShadowCss();\n/**\n * @param {?} _urlResolver\n *\nconstructor(private
_urlResolver: UrlResolver) {\n/**\n * @param {?} comp\n * @return {?}*\n *\ncompileComponent(comp:
CompileDirectiveMetadata): StylesCompileResult {\n  const /** @type {?} */ externalStylesheets:
CompiledStylesheet[] = [];\n  const /** @type {?} */ componentStylesheet: CompiledStylesheet =
this._compileStyles(\n    comp, new CompileStylesheetMetadata({\n      styles: comp.template.styles,\n
styleUrls: comp.template.styleUrls,\n      moduleUrl: identifierModuleUrl(comp.type)\n    }),\n    true);\n
comp.template.externalStylesheets.forEach((stylesheetMeta) => {\n    const /** @type {?} */ compiledStylesheet =
this._compileStyles(comp, stylesheetMeta, false);\n    externalStylesheets.push(compiledStylesheet);\n  });\n
return new StylesCompileResult(componentStylesheet, externalStylesheets);\n}\n/**\n * @param {?} comp\n *
@param {?} stylesheet\n * @param {?} isComponentStylesheet\n * @return {?}*\n *\nprivate _compileStyles(\n
comp: CompileDirectiveMetadata, stylesheet: CompileStylesheetMetadata,\n  isComponentStylesheet: boolean):
CompiledStylesheet {\n  const /** @type {?} */ shim = comp.template.encapsulation ===
ViewEncapsulation.Emulated;\n  const /** @type {?} */ styleExpressions =\n    stylesheet.styles.map(plainStyle
=> o.literal(this._shimIfNeeded(plainStyle, shim)));\n  const /** @type {?} */ dependencies:
StylesCompileDependency[] = [];\n  for (let /** @type {?} */ i = 0; i < stylesheet.styleUrls.length; i++) {\n

```



```

const /** @type {?} */ identifier: CompileIdentifierMetadata = {reference: null};\n    dependencies.push(new
StylesCompileDependency(\n        getStylesVarName(null), stylesheet.styleUrls[i], shim, identifier));\n
styleExpressions.push(new o.ExternalExpr(identifier));\n    }\n    // styles variable contains plain strings and arrays
of other styles arrays (recursive),\n    // so we set its type to dynamic.\n    const /** @type {?} */ stylesVar =
getStylesVarName(isComponentStylesheet ? comp : null);\n    const /** @type {?} */ stmt = o.variable(stylesVar)\n        .set(o.literalArr(\n            styleExpressions, new o.ArrayType(o.DYNAMIC_TYPE,
[o.TypeModifier.Const])))\n        .toDeclStmt(null, [o.StmtModifier.Final]);\n    return new
CompiledStylesheet([stmt], stylesVar, dependencies, shim, stylesheet);\n    }\n\n/**\n * @param {?} style\n * @param
 {?} shim\n * @return {?} }\n *\nprivate _shimIfNeeded(style: string, shim: boolean): string {\n    return shim ?
this._shadowCss.shimCssText(style, CONTENT_ATTR, HOST_ATTR) : style;\n    }\n\n\nfunction
StyleCompiler_tsickle_Closure_declarations() {\n    /** @type {?} */\n\nStyleCompiler.prototype._shadowCss;\n    /**
@type {?} */\n\nStyleCompiler.prototype._urlResolver;\n    }\n\n\n/**\n * @param {?} component\n * @return {?} }\n
*\nfunction getStylesVarName(component: CompileDirectiveMetadata): string {\n    let /** @type {?} */ result =
`styles`;\n    if (component) {\n        result += `_${identifierName(component.type)}`;\n    }\n    return
result;\n    }\n\ninterface DecoratorInvocation {\n    type: Function;\n    args?: any[];\n    }\n}

```

Found in path(s):

\* /opt/cola/permits/1184885776\_1627645156.82/0/compiler-2-4-0-tgz/package/src/style\_compiler.js.map

No license file was found, but licenses were detected in source scan.

```

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SAAS,CAAC,UAUU,CAAC;AACpC,CAAC", "sourcesContent": ["/\*\*\n \* @license\n \* Copyright Google Inc. All  
Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the  
LICENSE file at <https://angular.io/license>\n \*\n\nimport {ParseSourceSpan} from './parse\_util';\n\nexport class  
Message {\n/\*\*\n \* @param {?} nodes message AST\n \* @param {?} placeholders maps placeholder names to  
static content\n \* @param {?} placeholderToMessage maps placeholder names to messages (used for nested ICU  
messages)\n \* @param {?} meaning\n \* @param {?} description\n \*\nconstructor(\npublic nodes: Node[],\npublic  
placeholders: {[phName: string]: string},\npublic placeholderToMessage: {[phName: string]: Message},\npublic  
meaning: string,\npublic description: string) {\n}\n\nfunction Message\_tsickle\_Closure\_declarations() {\n/\*\*  
@type {?} \*\nMessage.prototype.nodes;\n/\*\* @type {?} \*\nMessage.prototype.placeholders;\n/\*\* @type {?} \*\nMessage.prototype.placeholderToMessage;\n/\*\* @type {?} \*\nMessage.prototype.meaning;\n/\*\* @type {?} \*\nMessage.prototype.description;\n}\n\nexport interface Node {\n sourceSpan: ParseSourceSpan;\n  
visit(visitor: Visitor, context?: any): any;\n}\n\nexport class Text implements Node {\n/\*\*\n \* @param {?} value\n \* @param {?} sourceSpan\n \*\nconstructor(public value: string,\npublic sourceSpan: ParseSourceSpan) {\n}\n/\*\*\n \* @param {?} visitor\n \* @param {?=} context\n \* @return {?}\n \*\nvisit(visitor: Visitor, context?: any): any {\n return visitor.visitText(this, context); }\n}\n\nfunction Text\_tsickle\_Closure\_declarations() {\n/\*\* @type {?} \*\nText.prototype.value;\n/\*\* @type {?} \*\nText.prototype.sourceSpan;\n}\n\n\n// TODO(vic): do we really  
need this node (vs an array) ?\nexport class Container implements Node {\n/\*\*\n \* @param {?} children\n \* @param {?} sourceSpan\n \*\nconstructor(public children: Node[],\npublic sourceSpan: ParseSourceSpan)  
{\n}\n/\*\*\n \* @param {?} visitor\n \* @param {?=} context\n \* @return {?}\n \*\nvisit(visitor: Visitor, context?:  
any): any {\n return visitor.visitContainer(this, context); }\n}\n\nfunction Container\_tsickle\_Closure\_declarations()  
{\n/\*\* @type {?} \*\nContainer.prototype.children;\n/\*\* @type {?} \*\nContainer.prototype.sourceSpan;\n}\n\n\nexport class Icu implements Node {\npublic expressionPlaceholder:  
string;\n/\*\*\n \* @param {?} expression\n \* @param {?} type\n \* @param {?} cases\n \* @param {?} sourceSpan\n \*\nconstructor(\npublic expression: string,\npublic type: string,\npublic cases: {[k: string]: Node},\npublic  
sourceSpan: ParseSourceSpan) {\n}\n/\*\*\n \* @param {?} visitor\n \* @param {?=} context\n \* @return {?}\n \*\nvisit(visitor: Visitor, context?: any): any {\n return visitor.visitIcu(this, context); }\n}\n\nfunction  
Icu\_tsickle\_Closure\_declarations() {\n/\*\* @type {?} \*\nIcu.prototype.expressionPlaceholder;\n/\*\* @type {?} \*\nIcu.prototype.expression;\n/\*\* @type {?} \*\nIcu.prototype.type;\n/\*\* @type {?} \*\nIcu.prototype.cases;\n/\*\* @type {?} \*\nIcu.prototype.sourceSpan;\n}\n\n\nexport class TagPlaceholder implements Node {\n/\*\*\n \* @param {?} tag\n \* @param {?} attrs\n \* @param {?} startName\n \* @param {?} closeName\n \* @param {?}



MAAM,EAAE,CAAC,CAAC;IACHD,CAAC;IA9CH;,,,,;OAKG;IACI,gBAAI,GAAX,UAA Y,IAAiB,EAAE,IAAY, EAAE,IAAoB;QAC7D,IAAM,gBAAGB,CAAC,QAAQ,GAAG,IAAI,CAAC,aAAa,CAAC;QACrD,IAAM,gBAAG B,CAAC,IAAI,GAAG,aAAa,CAAC,QAAQ,EAAE,IAAI,CAAC,CAAC;QAC5D,IAAI,gBAAGB,CAAC,IAAiB,C AAC;QACvC,EAAE,CAAC,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,CAAC;YACd,wCAAwC;YACxC,IAAI,GA AG,QAAQ,CAAC,SAAS,CAAC,GAAG,CAAC,IAAI,CAAC,CAAC;YACpC,EAAE,CAAC,CAAC,CAAC,IAAI, CAAC,CAAC,CAAC;gBACV,IAAI,GAAG,IAAI,WAAW,CAAC,QAAQ,EAAE,IAAI,CAAC,CAAC;gBACvC,Q AAQ,CAAC,SAAS,CAAC,GAAG,CAAC,IAAI,EAAE,IAAI,CAAC,CAAC;gBACnC,QAAQ,CAAC,KAAK,CAA C,IAAI,CAAC,IAAI,CAAC,CAAC;YAC5B,CAAC;QACH,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,iDAAiD;Y ACjD,IAAI,GAAG,IAAI,WAAW,CAAC,IAAI,EAAE,IAAI,CAAC,CAAC;YACnC,IAAI,CAAC,KAAK,CAAC,I AAI,CAAC,IAAI,CAAC,CAAC;QACxB,CAAC;QACD,MAAM,CAAC,IAAI,CAAC,KAAK,CAAC,IAAI,EAAE, IAAI,CAAC,CAAC;IACHc,CAAC;IAOBH,sBAAI,6BAAI;QAGR;:;WAEg;aACH,cAAaB,MAAM,CAAC,IAAI,C AAC,IAAI,CAAC,IAAI,CAAC,CAAC,CAAC;::;OAAA;IAC9C;::;OAIG;IACK,2BAAK,GAAb,UAAc,WAAwB,E AAE,IAAoB;QACxD,EAAE,CAAC,CAAC,IAAI,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC,CAAC;YACnB,qDAA qD;YACrD,IAAM,gBAAGB,CAAC,qBAAqB,GACxC,CAAC,CAAC,SAAS,CAAC,IAAI,CAAI,IAAI,CAAC,QA AQ,CAAC,IAAI,SAAI,IAAI,CAAC,mBAAmB,EAAI,CAAC,CAAC;YAC5E,IAAM,gBAAGB,CAAC,6BAA6B,G AChD,iBAAiB,CAAC,IAAI,CAAC,QAAQ,EAAE,WAAW,EAAE,IAAI,CAAC,IAAI,CAAC,CAAC;YAC7D,eAA e,CACX,6BAA6B,CAAC,IAAI,CAAC,WAAW,CAAC;iBAC1C,UAAU,CAAC,CAAC,CAAC,aAAa,CAAC,IAAI, EAAE,CAAC,6BAA6B,CAAC,CAAC,EACtE,IAAI,CAAC,MAAM,EAAE,qBAAqB,EACIC,EAAC,MAAM,EAA E,WAAW,CAAC,MAAM,EAAE,SAAS,EAAE,WAAW,CAAC,YAAY,EAAC,CAAC,CAAC;YACvE,MAAM,CAA C,CAAC,CAAC,UAAU,CAAC,gBAAGB,CAAC,WAAW,CAAC,WAAW,CAAC,CAAC;iBACzD,MAAM,CAA C,CAAC,qBAAqB,EAAE,6BAA6B,CAAC,IAAI,CAAC,WAAW,CAAC,CAAC,CAAC;iBACHf,MAAM,CAAC,I AAI,CAAC,CAAC;QACpB,CAAC;QAAC,IAAI,CAAC,CAAC;YACN,MAAM,CAAC,iBAAiB,CAAC,IAAI,CA AC,QAAQ,EAAE,WAAW,EAAE,IAAI,CAAC,IAAI,CAAC,CAAC,UAAU,CAAC,WAAW,EAAE,IAAI,CAAC,C AAC;QACHG,CAAC;IACH,CAAC;IACH,kBAAC;AAAD,CAAC,AA5ED,IA4EC;AAED;IACC,gBAAGB;IACjB, WAAW,CAAC,SAAS,CAAC,QAAQ,CAAC;IAC9B,gBAAGB;IACjB,WAAW,CAAC,SAAS,CAAC,mBAAmB,C AAC;IACzC,gBAAGB;IACjB,WAAW,CAAC,SAAS,CAAC,IAAI,CAAC;IAC1B,gBAAGB;IACjB,WAAW,CAAC ,SAAS,CAAC,IAAI,CAAC;AAC3B,CAAC;AAED;::;GAIG;AACH,uBAAuB,IAAiB,EAAE,IAAY;IACpD,IAAI,g BAAGB,CAAC,QAAQ,GAAuB,IAAI,CAAC;IACzD,GAAG,CAAC,CAAC,IAAI,gBAAGB,CAAC,CAAC,GAAG, IAAI,CAAC,SAAS,CAAC,MAAM,GAAG,CAAC,EAAE,CAAC,IAAI,CAAC,EAAE,CAAC,EAAE,EAAE,CAAC ;QACrE,IAAM,gBAAGB,CAAC,aAAa,GAAG,IAAI,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC;QACzD,EAAE,C AAC,CAAC,aAAa,CAAC,IAAI,IAAI,IAAI,CAAC,CAAC,CAAC;YAC/B,QAAQ,GAAG,aAAa,CAAC;YACzB,K AAK,CAAC;QACR,CAAC;IACH,CAAC;IACD,EAAE,CAAC,CAAC,CAAC,QAAQ,CAAC,CAAC,CAAC;QAC d,MAAM,IAAI,KAAK,CACX,wCAAsC,IAAI,0DAAuD,CAAC,CAAC;IACzG,CAAC;IACD,MAAM,CAAC,QA AQ,CAAC;AACIB,CAAC", "sourcesContent":["/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at\n https://angular.io/license\n \*/\n\nimport { CompilePipeSummary, tokenReference } from\n './compile\_metadata';\nimport { createPureProxy } from './compiler\_util/identifier\_util';\nimport { Identifiers,\n createIdentifier, resolveIdentifier } from './identifiers';\nimport \* as o from './output/output\_ast';\nimport\n { CompileView } from './compile\_view';\nimport { getPropertyInView, injectFromViewParentInjector } from\n './util';\n\nexport class CompilePipe {\n\n /\*\*\n \* @param {?} view\n \* @param {?} name\n \* @param {?} args\n \*\n \* @return {?} \*\n \*\n \* @static call(view: CompileView, name: string, args: o.Expression[]): o.Expression {\n \* const /\*\*\n \* @type {?} \*/ compView = view.componentView;\n \* const /\*\*\n \* @type {?} \*/ meta = \_findPipeMeta(compView,\n \* name);\n \* let /\*\*\n \* @type {?} \*/ pipe: CompilePipe;\n \* if (meta.pure) {\n \* // pure pipes live on the component\n \* view\n \* pipe = compView.purePipes.get(name);\n \* if (!pipe) {\n \* pipe = new CompilePipe(compView,\n \* meta);\n \* }\n \* compView.purePipes.set(name, pipe);\n \* compView.pipes.push(pipe);\n \* } else {\n \* //\n \* Non pure pipes live on the view that called it\n \* pipe = new CompilePipe(view, meta);\n \* view.pipes.push(pipe);\n \* }\n \* return pipe.\_call(view, args);\n \* }\n \*\n \* instance: o.ReadPropExpr;\n \*\n \* private\n \* \_purePipeProxyCount = 0;\n \*\n \* @param {?} view\n \* @param {?} meta\n \*\n \* constructor(public view:

```

CompileView,\npublic meta: CompilePipeSummary) {\n  this.instance =
o.THIS_EXPR.propC('_pipe_${meta.name}_${view.pipeCount++}');\n  const deps =
this.meta.type.diDeps.map((diDep) => {\n    if (tokenReference(diDep.token) ===
resolveIdentifier(Identifiers.ChangeDetectorRef)) {\n      return getPropertyInView(o.THIS_EXPR.prop('ref'),
this.view, this.view.componentView);\n    }\n    return injectFromViewParentInjector(view, diDep.token, false);\n  });\n  this.view.fields.push(new o.ClassField(this.instance.name, o.importType(this.meta.type)));\n  this.view.createMethod.resetDebugInfo(null, null);\n  this.view.createMethod.addStmt(o.THIS_EXPR.prop(this.instance.name)\n.set(o.importExpr(this.meta.type).instantiate(deps))\n.toStmt());\n }\n/**\n * @return {?}\n *\nget pure(): boolean { return this.meta.pure; }\n/**\n * @param {?} callingView\n * @param {?} args\n *\n@return {?}\n *\nprivate _call(callingView: CompileView, args: o.Expression[]): o.Expression {\n  if
(this.meta.pure) {\n    // PurePipeProxies live on the view that called them.\n    const /** @type {?} */
purePipeProxyInstance =\n      o.THIS_EXPR.propC(`${this.instance.name}_${this._purePipeProxyCount++}`);\n    const /** @type {?} */ pipeInstanceSeenFromPureProxy =\n      getPropertyInView(this.instance, callingView,
this.view);\n    createPureProxy(\n      pipeInstanceSeenFromPureProxy.prop('transform')\n.callMethod(o.BuiltinMethod.Bind, [pipeInstanceSeenFromPureProxy],\n      args.length,
purePipeProxyInstance,\n      {fields: callingView.fields, ctorStmts: callingView.createMethod});\n    return
o.importExpr(createIdentifier(Identifiers.castByValue))\n.callFn([purePipeProxyInstance,
pipeInstanceSeenFromPureProxy.prop('transform')])\n.callFn(args);\n  } else {\n    return
getPropertyInView(this.instance, callingView, this.view).callMethod('transform', args);\n  }\n }\n}\n\nfunction
CompilePipe_tsickle_Closure_declarations() {\n  /** @type {?} */\nCompilePipe.prototype.instance;\n  /** @type
{?} */\nCompilePipe.prototype._purePipeProxyCount;\n  /** @type {?} */\nCompilePipe.prototype.view;\n  /**
@type {?} */\nCompilePipe.prototype.meta;\n}\n\n/**\n * @param {?} view\n * @param {?} name\n * @return
{?}\n *\nfunction _findPipeMeta(view: CompileView, name: string): CompilePipeSummary {\n  let /** @type {?} */
pipeMeta: CompilePipeSummary = null;\n  for (let /** @type {?} */ i = view.pipeMetas.length - 1; i >= 0; i--) {\n
const /** @type {?} */ localPipeMeta = view.pipeMetas[i];\n    if (localPipeMeta.name == name) {\n      pipeMeta
= localPipeMeta;\n      break;\n    }\n  }\n  if (!pipeMeta) {\n    throw new Error(\n      `Illegal state: Could not find
pipe ${name} although the parser should have detected this error!`);\n  }\n  return pipeMeta;\n}\n\ninterface
DecoratorInvocation {\n  type: Function;\n  args?: any[];\n}\n"}

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-
tgz/package/src/view_compiler/compile_pipe.js.map

```

No license file was found, but licenses were detected in source scan.

```

/**

```

```

* @license undefined

```

```

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```

```

* *

```

```

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```

```

* found in the LICENSE file at https://angular.io/license

```

```

* @return {?}

```

```

*/

```

Found in path(s):

```

* /opt/cola/permits/1184885776_1627645156.82/0/compiler-2-4-0-tgz/package/src/facade/errors.js

```

# 1.153 batik-util 1.11

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- \* Providing benchmark suite
- \* Alec Wysoker
- \* Performance and memory usage improvement

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## 1.173 jline-style 3.12.1

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```

Found in path(s):

```
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleSource.java  
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-  
jar/org/jline/style/StyleExpression.java  
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleFactory.java  
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/Styler.java
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- \* /opt/cola/permits/1260641771\_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleColor.java
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- \* /opt/cola/permits/1260641771\_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/MemoryStyleSource.java
- \* /opt/cola/permits/1260641771\_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
- \* /opt/cola/permits/1260641771\_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyledWriter.java

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- \* /opt/cola/permits/1260641771\_1643189305.41/0/jline-style-3-12-1-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml

## 1.174 xml-beans 2.4.0

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*/
```

```
package zipcompare;
```

```
import java.util.zip.ZipFile;  
import java.util.zip.ZipEntry;  
import java.util.*;  
import java.io.IOException;  
import java.io.InputStream;
```

```
public class ZipCompare
```

```
{  
    public static void main(String[] args)  
    {  
        if (args.length != 2)  
        {  
            System.out.println("Usage: zipcompare [file1] [file2]");  
            System.exit(1);  
        }  
    }  
}
```

```
    ZipFile file1;  
    try { file1 = new ZipFile(args[0]); }  
    catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1);  
return; }
```

```
    ZipFile file2;  
    try { file2 = new ZipFile(args[1]); }  
    catch (IOException e) { System.out.println("Could not open zip file " + args[1] + ": " + e); System.exit(1);  
return; }
```

```
    System.out.println("Comparing " + args[0] + " with " + args[1] + ":");
```

```
    Set set1 = new LinkedHashSet();  
    for (Enumeration e = file1.entries(); e.hasMoreElements(); )  
        set1.add(((ZipEntry)e.nextElement()).getName());
```

```
    Set set2 = new LinkedHashSet();  
    for (Enumeration e = file2.entries(); e.hasMoreElements(); )
```

```

        set2.add(((ZipEntry)e.nextElement()).getName());

int errcount = 0;
int filecount = 0;
for (Iterator i = set1.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    if (!set2.contains(name))
    {
        System.out.println(name + " not found in " + args[1]);
        errcount += 1;
        continue;
    }
    try
    {
        set2.remove(name);
        if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
        {
            System.out.println(name + " does not match");
            errcount += 1;
            continue;
        }
    }
    catch (Exception e)
    {
        System.out.println(name + ": IO Error " + e);
        e.printStackTrace();
        errcount += 1;
        continue;
    }
    filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
}

```

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException

```

{
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;

    try
    {
        while (!done1)
        {
            int off1 = 0;
            int off2 = 0;

            while (off1 < buf1.length)
            {
                int count = stream1.read(buf1, off1, buf1.length - off1);
                if (count < 0)
                {
                    done1 = true;
                    break;
                }
                off1 += count;
            }
            while (off2 < buf2.length)
            {
                int count = stream2.read(buf2, off2, buf2.length - off2);
                if (count < 0)
                {
                    done2 = true;
                    break;
                }
                off2 += count;
            }
            if (off1 != off2 || done1 != done2)
                return false;
            for (int i = 0; i < off1; i++)
            {
                if (buf1[i] != buf2[i])
                    return false;
            }
        }
        return true;
    }
    finally { stream1.close(); stream2.close(); }
}

```

# 1.175 stax 4.1

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# 1.176 batik-svggen 1.11

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This product includes images from the Pasodoble Icon Theme



(<http://www.jesusda.com/projects/pasodoble>).

# 1.177 httpspi-servlet 2.3.2

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\* Project home: <https://projects.eclipse.org/projects/ee4j.metro>

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## Source Code

The project maintains the following source code repositories:

- \* <https://github.com/eclipse-ee4j/metro-xmlstreambuffer>
- \* <https://github.com/eclipse-ee4j/metro-policy>
- \* <https://github.com/eclipse-ee4j/metro-wsit>
- \* <https://github.com/eclipse-ee4j/metro-mimepull>
- \* <https://github.com/eclipse-ee4j/metro-ws-test-harness>
- \* <https://github.com/eclipse-ee4j/metro-package-rename-task>
- \* <https://github.com/eclipse-ee4j/metro-jax-ws>
- \* <https://github.com/eclipse-ee4j/metro-saaj>
- \* <https://github.com/eclipse-ee4j/metro-jwsdp-samples>
- \* <https://github.com/eclipse-ee4j/jax-rpc-ri>

## Third-party Content

This project leverages the following third party content.

addressing.xml Version: 2004/10 (n/a)

- \* License: W3C
- \* Project: <https://www.w3.org/Submission/ws-addressing/>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

ant-launcher (1.10.2)

- \* License: Apache-2.0 AND SAX-PD AND W3C
- \* Project: <https://ant.apache.org/>
- \* Source: <http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

Apache Ant (1.6)

- \* License: Apache-1.1
- \* Project: <https://ant.apache.org/>
- \* Source: <https://repo1.maven.org/maven2/org/apache/ant/ant/1.6/ant-1.6-sources.jar>

Apache Ant (1.10.2)

- \* License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain

commons-logging (1.1.2)

- \* License: Apache-2.0
- \* Project: <https://commons.apache.org/proper/commons-logging/>
- \* Source: <http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar>

JUnit (4.12)

- \* License: Eclipse Public License

maven-core (3.5.2)

- \* License: Apache-2.0

maven-plugin-annotations (3.5.1)

- \* License: Apache-2.0
- \* Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>
- \* Source: <https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

maven-plugin-api (3.5.2)

- \* License: Apache-2.0
- \* Project: <https://maven.apache.org/>
- \* Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>

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- \* License: Apache-2.0

maven-resolver-util (1.1.1)

- \* License: Apache-2.0

maven-settings (3.5.2)

- \* License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

- \* License: Oasis Style
- \* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

plexus-utils (3.1.0)

- \* License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana University Extreme! Lab Software License V1.1.1 (Apache 1.1 style)

relaxng-datatype (1.0)

- \* License: New BSD license

stax2-api (4.1)

- \* License: Pending
- \* Project: <https://github.com/FasterXML/stax2-api>
- \* Source: <http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

testng (6.14.2)

- \* License: Apache-2.0 AND MIT
- \* Project: <https://testng.org/doc/index.html>
- \* Source: <https://github.com/cbeust/testng>

woodstox-core-asl (4.4.1)

- \* License: Apache-2.0

woodstox-core-asl (5.1.0)

- \* License: Apache-2.0
- \* Project: <https://github.com/FasterXML/woodstox>
- \* Source: <https://github.com/FasterXML/woodstox>

ws-addr.wsd (1.0)

- \* License: W3C
- \* Project: <https://www.w3.org/2005/08/addressing/>
- \* Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

- \* License: Oasis Style
- \* Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

wscor.xsd (1.0)

- \* License: OASIS Style

wscor.xsd (1.1)

- \* License: Oasis (Custom)
- \* Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>
- \* Source:  
<http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wrm Version: 2005/02 (n/a)

- \* License: Oasis (Custom)
- \* Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>
- \* Source:  
<http://schemas.xmlsoap.org/ws/2005/02/rm/wrm.xsd>; <http://schemas.xmlsoap.org/ws/2005/02/rm/wrm-policy.xsd>

wrm.xsd (1.2)

- \* License: Oasis

wstx-wsat.xsd (1.1)

- \* License: Oasis (Custom)

xmlsec (1.5.8)

\* License: Apache-2.0  
\* Project: <http://santuario.apache.org/>  
\* Source:  
<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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# 1.178 stax-api 1.0 2

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

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<html>
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<body>
```

```
<h3>THIS SOFTWARE IS AVAILABLE UNDER A DUAL LICENSE MODEL: CDDL 1.0 and GPL v2</h3>
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<li><p><b>1. Definitions.</b></p>
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<b>1.1. &ldquo;Contributor&rdquo;</b> means each individual or entity that creates or contributes to the creation of Modifications.

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<p>  
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<p>  
<b>B.</b> Any new file that contains any part of  
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<p>  
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<p>  
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<p>  
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## 1.179 commons-logging 1.1.1

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/completion/FileNameCompleter.groovy  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/commands/PurgeCommand.properties  
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```

org.codehaus.groovy.jsr223.GroovyScriptEngineFactory

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```
* /opt/cola/permits/1149087027_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/META-INF/services/javax.script.ScriptEngineFactory
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```
* /opt/cola/permits/1149087027_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org.codehaus.groovy.util.CharSequenceReader.java
* /opt/cola/permits/1149087027_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org.codehaus.groovy.ast.tools.ClassNodeUtils.java
* /opt/cola/permits/1149087027_1620942440.49/0/groovy-all-2-4-8-sources-1-
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jar/org/codehaus/groovy/ast/tools/ParameterUtils.java

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org.codehaus.groovy.testng.TestNgRunner

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```

```
# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

```
#global transformation for AST Builder
org.codehaus.groovy.ast.builder.AstBuilderTransformation
```

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/META-

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```

```
# Format: one extension on each line without the leading "*/"
```

# Listed below are default groovy source file extensions.

# NOTE: This implementation of supporting multiple file extensions is experimental and  
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groovy

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org.codehaus.groovy/antlr/treewalker/VisitorAdapter.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/swing/factory/SplitPaneFactory.groovy

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/control/customizers/builder/PostCompletionFactory.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/EnumCompletionVisitor.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/commands/RecordCommand.groovy

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/grape/GrapeEngine.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/text/markup/TemplateConfiguration.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/swing/factory/RichActionWidgetFactory.groovy

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/InvokerHelper.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/GroovyResourceLoader.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/GrapeMain.groovy

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jar/org/codehaus/groovy/tools/shell/util/HelpFormatter.groovy  
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ant/GenerateStubsTask.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/vmplugin/v5/PluginDefaultGroovyMethods.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/transform/CompileStatic.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/reflection/v7/GroovyClassValueJava7.java
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/groovydoc/ClasspathResourceManager.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/GrabExclude.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/FloatingPointMath.java

- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/text/markup/MarkupBuilderCodeTransformer.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/ui/view/MacOSXDefaults.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/InnerClassVisitorHelper.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/StatementReplacer.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/IndyMath.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/ReadOnlyPropertyException.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/sql/SqlWhereVisitor.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavaAwareCompilationUnit.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/swing/SwingBuilder.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/xml/streamingmarkupsupport/Builder.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/commands/HistoryCommand.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ConcurrentReaderHashMap.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyAbstractableElementDoc.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/ShortCachedClass.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/control/ResolveVisitor.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/transform/NewifyASTTransformation.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/json/internal/IO.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/MetaClass.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/transform/AbstractASTTransformUtil.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/util/ResourceConnector.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/jmx/builder/JmxEventListener.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/antlr/AntlrParserPlugin.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/MetaClassImpl.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/BooleanWrapper.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/StringBufferWriter.java
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/asm/ExpressionAsVariableSlot.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodCall.java

- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/InvokerInvocationException.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/model/DefaultTableModel.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/ExtendedVerifier.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/DateGroovyMethods.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/expr/TupleExpression.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassGetPropertySite.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/MetaArrayLengthProperty.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/groovydoc/GroovyRootDoc.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/ClassExtender.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/DelegatingMetaClass.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/Selector.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/InteractiveShellRunner.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyClassDocAssembler.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/ui/text/TextUndoManager.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/util/ReferenceBundle.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PogoInterceptableSite.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/commands/SetCommand.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/transform/stc/SecondPassExpression.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/util/ObservableMap.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/model/ValueModel.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/control/io/ReaderSource.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/antlr/UnicodeLexerSharedInputState.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesUnaryExpressionHelper.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/transform/SelfType.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/IncorrectClosureArgumentsException.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/Binding.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/sql/GroovyRowResult.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/DefaultMetaClassInfo.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/groovydoc/MockOutputTool.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/asm/TypeChooser.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/ConvertedMap.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/util/SingleKeyHashMap.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesTypeChooser.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/jmx/builder/JmxBuilderException.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/servlet/TemplateServlet.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/GroovyCodeVisitor.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/control/SourceUnit.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/reflection/CachedConstructor.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/syntax/RuntimeParserException.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/Visitor.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/TemporaryMethodKey.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/MetaClassRegistryChangeEvent.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/ProxyMetaClass.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/testng/TestNgRunner.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/antlr/java/Groovifier.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/json/internal/Value.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/transform/AutoCloneStyle.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ThreadManagedMetaBeanProperty.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/json/JsonOutput.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java

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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/groovydoc/GroovyFieldDoc.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/ComplexCommandSupport.groovy
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/swing/binding/JComboBoxMetaMethods.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/powerassert/Value.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/json/JsonParserType.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/control/GenericsVisitor.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/util/CliBuilder.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/swing/factory/FormattedTextFactory.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/commands/SaveCommand.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/sql/BatchingStatementWrapper.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/Main.groovy
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/json/internal/NumberValue.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/model/ClosureModel.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/NodeCollector.java
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jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyProgramElementDoc.java  
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 \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/BytecodeExpression.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/binding/TriggerBinding.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/expr/NamedArgumentListExpression.java
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/control/LabelVerifier.java
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/lang/Range.java
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/io/GroovyPrintWriter.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/stmt/BreakStatement.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/LongCachedClass.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/util/slurpersupport/ReplacementNode.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/groovydoc/ExternalGroovyClassDoc.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MissingPropertyExceptionNoStack.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/genMathModification.groovy

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/expr/UnaryMinusExpression.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/EncodingGroovyMethodsSupport.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassSite.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayPutAtMetaMethod.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/asm/DelegatingController.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/transform/PackageScopeTarget.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/memoize/MemoizeCache.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/DummyClassGenerator.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/NewInstanceMetaMethod.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/swing/factory/ImageIconFactory.groovy  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/antlr/java/Java2GroovyProcessor.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/NullObject.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/m12n/MetaInfExtensionModule.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/expr/BooleanExpression.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/ast/expr/StaticMethodCallExpression.java

\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/transform/ReadWriteLockASTTransformation.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryIntExpressionHelper.java

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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/json/JsonTokenType.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/ui/GroovySocketServer.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/util/ResourceException.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/transform/Trait.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/shell/commands/ShadowCommand.groovy  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/sql/SqlWithParams.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/syntax/TokenMismatchException.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/control/CompilationFailedException.java  
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jar/groovy/text/markup/MarkupTemplateTypeCheckingExtension.groovy  
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jar/groovy/json/internal/JsonParserUsingCharacterSource.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/org/codehaus/groovy/tools/javac/JavaStubCompilationUnit.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/groovy/lang/MissingClassException.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/org/codehaus/groovy/tools/shell/commands/EditCommand.groovy  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/org/codehaus/groovy/runtime/wrappers/LongWrapper.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/org/codehaus/groovy/util/ReleaseInfo.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/org/codehaus/groovy/ast/stmt/CaseStatement.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/org/codehaus/groovy/ast/expr/ListExpression.java  
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jar/org/codehaus/groovy/control/ConfigurationException.java  
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jar/org/codehaus/groovy/transform/sc/StaticCompileTransformation.java  
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jar/org/codehaus/groovy/tools/Utilities.java  
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jar/groovy/transform/stc/ClosureParams.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/groovy/json/JsonSlurperClassic.java  
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jar/groovy/lang/MissingPropertyException.java  
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jar/org/codehaus/groovy/control/AnnotationConstantsVisitor.java  
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jar/org/codehaus/groovy/tools/shell/util/JAnsiHelper.groovy  
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jar/org/codehaus/groovy/binding/BindPath.java  
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jar/org/codehaus/groovy/control/customizers/builder/SourceAwareCustomizerFactory.java  
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jar/groovy/json/internal/JsonParserCharArray.java  
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jar/groovy/json/internal/JsonFastParser.java  
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\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
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jar/groovy/io/EncodingAwareBufferedWriter.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/transform/Canonical.java  
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jar/groovy/lang/SpreadListEvaluatingException.java  
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jar/groovy/transform/stc/FromString.java  
\* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-  
jar/org/codehaus/groovy/groovydoc/GroovyParameter.java  
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 \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/xml/StaxBuilder.groovy  
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- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/xml/package.html
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/groovy/swing/impl/package.html
- \* /opt/cola/permits/1149087027\_1620942440.49/0/groovy-all-2-4-8-sources-1-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/deprecated-list.html
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Found in path(s):

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- \* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/overview.html
- \* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/package.html
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- \* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/package.html
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- \* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/URLConnection.java
- \* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/Encoder.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/StringEncodings.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/QCodec.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/RFC1522Codec.java

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\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/Base64.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/BCodec.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/BinaryCodec.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/RefinedSoundex.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/DecoderException.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/StringEncoderComparator.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/Soundex.java

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\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/Hex.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/QuotedPrintableCodec.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/Metaphone.java

\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/Decoder.java

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\* /opt/cola/permits/1135953634\_1613641193.46/0/commons-codec-1-3-sources-1-jar/org/apache/commons/codec/EncoderException.java

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## 1.183 JAXB-XJC 2.3.2

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```

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```

```
<title>Jing Copying Conditions</title>
```

```
</head>
```

```
<body>
```

```
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</dd>

</dl>

</body>

</html>

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## 1.185 ganymed-ssh2 262

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# 1.186 jackson 1.9.3

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```
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/tlv/ScriptFreeTLV.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/core/LoopTag.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/core/ConditionalTagSupport.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/sql/ResultImpl.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/core/Config.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/fmt/LocaleSupport.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/sql/SQLExecutionTag.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/tlv/PermittedTaglibsTLV.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/fmt/LocalizationContext.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/core/LoopTagStatus.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/sql/Result.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-
jar/javax/servlet/jsp/jstl/core/LoopTagSupport.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/sql/ResultSupport.java
```

## 1.188 jline 0.9.93

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\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/NullCompletor.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleReaderInputStream.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleReader.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ArgumentCompletor.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/UnixTerminal.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ANSIBuffer.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/WindowsTerminal.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/FileNameCompletor.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CursorBuffer.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/History.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/UnsupportedTerminal.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ClassNameCompletor.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/MultiCompletor.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-

jar/jline/CandidateCycleCompletionHandler.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleRunner.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/SimpleCompletor.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CompletionHandler.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleOperations.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-

jar/jline/CandidateListCompletionHandler.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/Completor.java

\* /opt/cola/permits/1150919602\_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/Terminal.java

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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/util/math/Precision.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/util/math/PoissonDistribution.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/util/math/ContinuedFraction.java  
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- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/HashSplitting.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/LocalLockState.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/stage/query/QueryAlloc.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/locks/InterProcessReadWriteUpdateLock.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/map/impl/IterationContext.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/set/DummyValueData.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/util/Objects.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/impl/util/math/package-info.java
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- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/map/OldDeletedEntriesCleanupThread.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/HashContext.java
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- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/map/impl/stage/data/bytes/WrappedValueBytesData.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/map/MapEntryOperations.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/locks/InterProcessDeadLockException.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-jar/net/openhft/chronicle/hash/serialization/impl/ByteArraySizedReader.java
- \* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-

jar/net/openhft/chronicle/map/ChronicleMapIterator.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/impl/MapIterationContext.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/xstream/converters/ValueConverter.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/serialization/package-info.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/impl/ReplicatedMapQueryContext.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/serialization/impl/ExternalBytesMarshallableDataAccess.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/HashQueryContext.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/serialization/impl/CharSequenceUtf8DataAccess.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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jar/net/openhft/chronicle/hash/Data.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/impl/stage/replication/ReplicationUpdate.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/HashEntry.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/set/package-info.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/serialization/impl/StringBuilderSizedReader.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/VanillaGlobalMutableState.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/impl/stage/map/VanillaChronicleMapHolderImpl.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/impl/stage/map/ValueBytesInterop.java  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/impl/stage/iter/ReplicatedMapAbsentDelegatingForIteration.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/VanillaChronicleMap.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/serialization/impl/BytesAsSizedReader.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/set/replication/SetReplicableEntry.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-

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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/serialization/impl/IntegerDataAccess.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/ChronicleHashBuilder.java  
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jar/net/openhft/chronicle/hash/impl/stage/replication/ReplicableEntryDelegating.java  
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jar/net/openhft/chronicle/hash/impl/BigSegmentHeader.java  
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jar/net/openhft/chronicle/hash/serialization/impl/WrongXxHash.java  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/serialization/impl/StringBuilderUtf8DataAccess.java  
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jar/net/openhft/chronicle/map/DefaultValueProvider.java  
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jar/net/openhft/chronicle/hash/impl/IntCompactOffHeapLinearHashTable.java  
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jar/net/openhft/chronicle/map/ReplicatedGlobalMutableState\$\$Native.java  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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jar/net/openhft/chronicle/hash/serialization/impl/DoubleDataAccess.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/map/impl/stage/query/Absent.java  
\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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jar/net/openhft/chronicle/map/impl/stage/query/ReplicatedMapAbsent.java  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
jar/net/openhft/chronicle/hash/impl/MemoryResource.java  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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\* /opt/cola/permits/1184885845\_1627645199.9/0/chronicle-map-3-20-84-sources-  
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# 1.190 commons-modeler 2.0.1

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## 1.191 httpcomponents-client 4.5.13

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-----  
Eclipse

The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.  
\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----  
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.208 chronicle-bytes 2.20.106

### 1.208.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/VanillaBytes.java

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Found in path(s):

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/Byteable.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/ByteStringWriter.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/ref/BinaryLongReference.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/ReleasedBytesStore.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/RandomCommon.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/ref/ByteableIntArrayValues.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesUtil.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/StopCharTesters.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/ReadOnlyMappedBytesStore.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/ByteStringReader.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-

jar/net/openhft/chronicle/bytes/AbstractBytes.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/BytesMarshaller.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/UncheckedNativeBytes.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/NativeBytesStore.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/UncheckedLongReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/util/AbstractInterner.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/util/UTF8StringInterner.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/util/Bit8StringInterner.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ReadBytesMarshallable.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/NativeBytes.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/UTFDataFormatRuntimeException.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/BinaryLongArrayReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/StopCharTester.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/StreamingDataInput.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/MappedBytesStore.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/BinaryTwoLongReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/MethodWriterInvocationHandler.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/RandomDataOutput.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/StreamingDataOutput.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/SubBytes.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/WriteBytesMarshallable.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/algo/VanillaBytesStoreHash.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/LongReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/UncheckedBytes.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-



jar/net/openhft/chronicle/bytes/ref/ByteableLongArrayValues.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/TwoLongReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ConnectionDroppedException.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/BytesRingBufferStats.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/TextIntArrayReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
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\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/MappedBytesStoreFactory.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/util/EscapingStopCharTester.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/HeapBytesStore.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/BytesStore.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/TextBooleanReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/StopCharsTester.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/util/StringInternerBytes.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/TextIntReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/MappedFile.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/TextLongArrayReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/util/EscapingStopCharsTester.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ByteStringAppender.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/ref/BinaryIntReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-  
jar/net/openhft/chronicle/bytes/StreamingInputStream.java

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\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesIn.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesOut.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/AbstractBytesStore.java

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- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BinaryBytesMethodWriterInvocationHandler.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/RingBufferReader.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodReaderInterceptorReturns.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodWriterListener.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MappedUniqueMicroTimeProvider.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/util/PropertyReplacer.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/util/DecoratedBufferUnderflowException.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodEncoderLookup.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/OffsetFormat.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/GuardedNativeBytes.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesContext.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/algo/XxHash.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/RingBufferReaderStats.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesComment.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BinaryWireCode.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodEncoder.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodReader.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodWriterBuilder.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MultiReaderBytesRingBuffer.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesMethodWriterInvocationHandler.java
- \* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodReaderBuilder.java

\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodId.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodWriterInterceptorReturns.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesMethodReaderBuilder.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodReaderInterceptor.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/ref/AbstractReference.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesParselet.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/HexDumpBytes.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/BytesMethodWriterBuilder.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/MethodWriterInterceptor.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/util/DecoratedBufferOverflowException.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/CommonMarshallable.java  
\* /opt/cola/permits/1184885906\_1627645205.73/0/chronicle-bytes-2-20-106-sources-jar/net/openhft/chronicle/bytes/DynamicallySized.java

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<https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/>

JUnit (4.12)

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maven-compat (3.5.2)

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<https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2>

maven-core (3.5.2)

\* License: Apache-2.0  
\* Project: <https://maven.apache.org/ref/3.5.2/maven-core/index.html>  
\* Source: <https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2>

maven-plugin-annotations (3.5)

\* License: Apache-2.0  
\* Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/>  
\* Source:  
<https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations>

maven-plugin-api (3.5.2)

\* License: Apache-2.0

maven-resolver-api (1.1.1)

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maven-resolver-transport-file (1.1.1)

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\* Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>  
\* Source:  
<https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file>

maven-resolver-util (1.1.1)

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maven-settings (3.5.2)

\* License: Apache-2.0

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2>

OSGi Service Platform Core Companion Code (6.0)

\* License: Apache License, 2.0

plexus-archiver (3.5)

\* License: Apache-2.0

\* Project: <https://codehaus-plexus.github.io/plexus-archiver/>

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Sax (0.2)

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\* Project: <http://www.megginson.com/downloads/SAX/>

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testng (6.14.2)

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\* Project: <https://testng.org/doc/index.html>

\* Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

\* License: Pending

\* Project: <https://maven.apache.org/wagon/>

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

xz for java (1.8)

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# Jackson JSON processor

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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## 1.220 snappy-java 1.0.4.1

## 1.221 c3p0 0.9.5.4

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# 1.222 jetty-io 9.4.16.v20190411

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

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#### Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

#### Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

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# 1.233 jetty-quickstart 9.4.28.v20200408

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.237 apache-log4j 2.17.1

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## 1.238 javax-inject 1

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## 1.243 jackson 2.10.1

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

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\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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\* /opt/cola/permits/1143311537\_1615575203.2/0/gunit-3-3-sources-1-jar/org/antlr/gunit/Interp.java  
\* /opt/cola/permits/1143311537\_1615575203.2/0/gunit-3-3-sources-1-jar/org/antlr/gunit/JUnitCodeGen.java  
\* /opt/cola/permits/1143311537\_1615575203.2/0/gunit-3-3-sources-1-jar/org/antlr/gunit/gUnitExecutor.java  
\* /opt/cola/permits/1143311537\_1615575203.2/0/gunit-3-3-sources-1-jar/org/antlr/gunit/gUnitTestSuite.java  
No license file was found, but licenses were detected in source scan.

/\*

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\*/

```
group gUnitTestResult;
```

```
testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<
```

```
-----  
<title> with <num_of_test> tests  
-----
```

```
<num_of_failure> failures found:
```

```
<failure:{<it.header>
```

```
expected: <it.expectedResult>
```

```
actual: <it.actualResult>
```

```
>>
```

```
<if(has_invalid)>
```

```
<num_of_invalid> invalid inputs found:
```

```
<invalid:{<it.header>
```

```
invalid input: <it.actual>
```

```
>>
```

```
<endif>
```

```
Tests run: <num_of_test>, Failures: <num_of_failure>
```

```
>>
```

```
Found in path(s):
```

```
* /opt/cola/permits/1143311537_1615575203.2/0/gunit-3-3-sources-1-jar/org/antlr/gunit/gUnitTestResult.stg
```

## 1.266 rt-fi 2.3.2

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The project maintains the following source code repositories:

- \* <https://github.com/eclipse-ee4j/metro-xmlstreambuffer>
- \* <https://github.com/eclipse-ee4j/metro-policy>
- \* <https://github.com/eclipse-ee4j/metro-wsit>
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- \* <https://github.com/eclipse-ee4j/jax-rpc-ri>

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addressing.xml Version: 2004/10 (n/a)

\* License: W3C

\* Project: <https://www.w3.org/Submission/ws-addressing/>

\* Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

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\* Project: <https://ant.apache.org/>

\* Source:

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\* License: Apache-1.1

\* Project: <https://ant.apache.org/>

\* Source: <https://repo1.maven.org/maven2/org/apache/ant/ant/1.6/ant-1.6-sources.jar>

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\* Project: <https://commons.apache.org/proper/commons-logging/>

\* Source:

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\* License: Eclipse Public License

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\* License: Apache-2.0

maven-plugin-annotations (3.5.1)

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\* Project:

<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

\* Source:

<https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

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\* Project: <https://maven.apache.org/>

\* Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>

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mex.xsd Version: 2004/09 (n/a)

\* License: Oasis Style

\* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

\* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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stax2-api (4.1)

\* License: Pending

\* Project: <https://github.com/FasterXML/stax2-api>

\* Source:

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testng (6.14.2)

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\* Project: <https://testng.org/doc/index.html>

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woodstox-core-asl (4.4.1)

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ws-addr.wsd (1.0)

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\* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

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wsm Version: 2005/02 (n/a)

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\* Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>

\* Source:

<http://schemas.xmlsoap.org/ws/2005/02/rm/wsm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsm-policy.xsd>

wsm.xsd (1.2)

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xmlsec (1.5.8)

\* License: Apache-2.0

\* Project: <http://santuario.apache.org/>

\* Source:

<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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# 1.269 jackson-dataformat-yaml 2.12.4

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- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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#### Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.  
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## 1.273 reflections 0.9.10

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'

# 1.279 jsqparser 2.1

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```
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 * #%L
 * JSQLParser library
```



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# 1.280 dom 1.0

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ElementEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObject.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASModel.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DocumentAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASDataType.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASContentModel.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASWriter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DocumentEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObjectList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASBuilder.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/NodeEditAS.java



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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/package.html

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```

```
*/
```

```
/**
```

```
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
```

```
 *
```

```
 * @return a boolean that says whether this content has been compacted for UPA
```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
```

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```
/*
```

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```

```
*/
```

```
/**
```

```
 * DOM Level 3 LS CR - Experimental.
```

```
 * Create a new LSParser. The newly constructed parser may
```

```
 * then be configured by means of its DOMConfiguration
```

```
 * object, and used to parse documents by means of its parse
```

```
 * method.
```

```
 * @param mode The mode argument is either
```

```
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
```

```
 * mode is MODE_SYNCHRONOUS then the
```

```
 * LSParser that is created will operate in synchronous
```

```
 * mode, if it's MODE_ASYNCHRONOUS then the
```

- \* `LSParser` that is created will operate in asynchronous
- \* mode.
- \* @param schemaType An absolute URI representing the type of the schema
- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema found), use the value
- \* `null`.
- \* **Note:** For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)]
- \* , applications must use the value
- \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- \* applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* @return The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* **Note:** By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)"
- \* configuration parameter is `null`. However, implementations
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* @exception DOMException
- \* NOT\_SUPPORTED\_ERR: Raised if the requested mode or schema type is
- \* not supported.
- \*/

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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-
- jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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jar/org/apache/xerces/dom/DOMImplementationListImpl.java  
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\*/  
/\*\*  
\* used to check the 3 constraints against each complex type  
\* (should be each model group):  
\* Unique Particle Attribution, Particle Derivation (Restriction),  
\* Element Declarations Consistent.  
\*/

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jar/org/apache/xerces/impl/xs/XSConstraints.java  
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDDocumentInfo.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLImgElement.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java

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jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLRefreshElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/DOMNormalizer.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/IntegerDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/html/dom/HTMLLIIndexElementImpl.java  
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jar/org/apache/xerces/stax/EmptyLocation.java  
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jar/org/apache/xml/serialize/SerializerFactory.java  
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jar/org/apache/xerces/stax/events/CharactersImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/dv/xs/EntityDV.java  
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jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/html/dom/HTMLOptGroupElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/DVFactoryException.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLOptionElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLPElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/dom/TreeWalkerImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xpath/regex/ParseException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/parser/XMLDTDFilter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/wml/dom/WMLAnchorElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/html/dom/HTMLModElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLDocumentImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/DeferredElementNSImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/XMLEntityHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/parsers/StandardParserConfiguration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSAllCM.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/opti/AttrImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLFieldsetElementImpl.java  
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jar/org/apache/wml/dom/WMLDoElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xpath/regex/RangeToken.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/html/dom/NameNodeListImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLDOMImplementationImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/io/UCSReader.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/NodeImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/parser/XMLConfigurationException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/AttributesProxy.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-



jar/org/apache/xerces/parsers/XMLGrammarParser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dtd/XMLSimpleType.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/YearDV.java  
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jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties  
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*/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java
```

## 1.281 hibernate-commons-annotations

### 4.0.2.Final

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\* Any exception thrown by a `MessageBodyWriter` chain that is not an instance of a `WriterException` is caught internally

\* by the Resteasy runtime and wrapped with an instance of `WriterException`.

\*

\* If you want to have special exception handling for exceptions thrown by `MessageBodyWriters` and their interceptors, then write an exception

\* mapper for `WriterException`.

\*

\* Also, you may extend this class and throw instances of it from your `MessageBodyWriters` (and interceptors)

\*

\* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>

\* @version \$Revision: 1 \$

\*/

Found in path(s):

\* /opt/cola/permits/1115898466\_1607784432.18/0/resteasy-jaxrs-2-3-4-final-sources-1-jar/org/jboss/resteasy/spi/WriterException.java

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/\*\*

\* Any exception thrown by a `MessageBodyReader` chain that is not an instance of a `ReaderException` is caught internally

\* by the Resteasy runtime and wrapped with an instance of `ReaderException`.

\*

\* If you want to have special exception handling for exceptions thrown by `MessageBodyReaders`, then write an exception

\* mapper for `ReaderException`.

\*

\* Also, you may extend this class and throw instances of it from your `MessageBodyReaders` (and interceptors)

\*

\* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>

\* @version \$Revision: 1 \$

\*/

Found in path(s):

\* /opt/cola/permits/1115898466\_1607784432.18/0/resteasy-jaxrs-2-3-4-final-sources-1-jar/org/jboss/resteasy/spi/ReaderException.java

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\* <p>Encodes and decodes to and from Base64 notation.</p>

\* <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>

\* <p/>

\* <p>Example:</p>

```

* <p/>
* <code>String encoded = Base64.encode( myByteArray );</code>
* <br />
* <code>byte[] myByteArray = Base64.decode( encoded );</code>
* <p/>
* <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* encodeBytes( bytes, options ) the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>
* <p/>
* <p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,
* Section 2.1, implementations should not add line feeds unless explicitly told
* to do so. I've got Base64 set to this behavior now, although earlier versions
* broke lines by default.</p>
* <p/>
* <p>The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>
* <p/>
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
* <p>to compress the data before encoding it and then making the output have newline characters.</p>
* <p>Also...</p>
* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>
* <p/>
* <p/>
* <p/>
* <p>
* Change Log:
* <p>
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>
* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>
* <li>v2.3.5 - Fixed bug in { @link #encodeFromFile } where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* { @link #decodeToObject(java.lang.String, int, java.lang.ClassLoader) }
* method.</li>

```

- \* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.</li>
- \* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the { @link #encodeBytesToBytes(byte[])} family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).</li>
- \* <li>v2.3.1 - Added { @link #encodeBytesToBytes(byte[], int, int, int)} and some similar helper methods to be more efficient with memory by not returning a String but just a byte array.</li>
- \* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or something similar. Here are some changes that may affect you:
  - \* <ul>
  - \* <li><em>Does not break lines, by default.</em> This is to keep in compliance with <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>.</li>
  - \* <li><em>Throws exceptions instead of returning null values.</em> Because some operations (especially those that may permit the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever there's an error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done this way to begin with.</li>
  - \* <li><em>Removed all references to System.out, System.err, and the like.</em> Shame on me. All I can say is sorry they were ever there.</li>
  - \* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed such as when passed arrays are null or offsets are invalid.</li>
  - \* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before for people who were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
- \* </ul>
- \* <li>v2.2.1 - Fixed bug using URL\_SAFE and ORDERED encodings. Fixed bug when using very small files (~&lt; 40 bytes).</li>
- \* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
  - \* <ol>
  - \* <li>The default is RFC3548 format.</li>
  - \* <li>Calling Base64.setFormat(Base64.BASE64\_FORMAT.URLSAFE\_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. <a href="http://www.faqs.org/rfcs/rfc3548.html">http://www.faqs.org/rfcs/rfc3548.html</a></li>
  - \* <li>Calling Base64.setFormat(Base64.BASE64\_FORMAT.ORDERED\_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described

\* in <http://www.faqs.org/qa/rfc-1940.html>

\*

\* Special thanks to Jim Kellerman at <http://www.powerset.com/>

\* for contributing the new Base64 dialects.

\*

\*

- \* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
- \* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
- \* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
- \* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (int's that you "OR" together).
- \* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode( String s, boolean gzipCompressed ).
- \* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
- \* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams.
- \* Added the ability to GZip-compress objects before encoding them.
- \* v1.4 - Added helper methods to read/write files.
- \* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
- \* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
- \* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
- \* v1.3.3 - Fixed I/O streams which were totally messed up.

\*

\*

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\* Please visit <http://iharder.net/base64> periodically to check for updates or to contribute improvements.

\*

\*

\* @author Robert Harder

\* @author rob@iharder.net

\* @version 2.3.7

\* /

Found in path(s):

\* /opt/cola/permits/1115898466\_1607784432.18/0/reteasy-jaxrs-2-3-4-final-sources-1-jar/org/jboss/reteasy/util/Base64.java

## 1.283 bean-validation-api 1.0.0.GA

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\* /opt/ws\_local/PERMITS\_SQL/1018977165\_1591906383.79/0/validation-api-1-0-0-ga-jar/META-INF/maven/javax.validation/validation-api/pom.xml

## 1.284 commons-lang3 3.4

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# 1.285 tomcat-i18n-ru 9.0.58

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# 1.286 commons-net 3.0.1

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# 1.287 graphviz 2.38.0

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<html xmlns="http://www.w3.org/1999/xhtml">

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body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
  }
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
  }
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
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```
digraph G {
  rankdir="LR";
  label = "label demo";
  subgraph cluster0 {
    a;
    b;
    a->b;
    label = "cluster0";
    labeljust="left";
  }
```

```
subgraph cluster1 {
  c;
  d;
  c->d;
  label = "cluster1";
}
}
```

This package was originally debianized by Stephen M Moraco <stephen@debian.org>  
on Fri, 31 Dec 1999 15:37:17 -0700.

It was downloaded from <http://www.graphviz.org/>

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

```
digraph G {
  rankdir="LR";
  label = "label demo";
  labeljust="left";
  subgraph cluster0 {
    a;
    b;
    a->b;
    label = "cluster0";
    labelloc="bottom"
  }
  subgraph cluster1 {
    c;
    d;
    c->d;
    label = "cluster1";
    labelloc="top"
  }
}
```

# 1.288 commons-lang3 3.8.1

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Version 2.0, January 2004

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## 1.290 groovy 2.4.8

## 1.291 netty-resolver 4.1.50.Final



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jar/io/netty/resolver/AbstractAddressResolver.java
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jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/InetAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
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## 1.296 zstd-jni 1.4.9-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1615191527618

Bundle-Description: JNI bindings for Zstd native library that provides  
fast and high compression lossless algorithm for Java and all JVM la  
nguages.

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Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: aix/ppc64/libzstd-jni.so;osname=AIX;processor=ppc64  
, darwin/x86\_64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processo  
r=x86\_64, darwin/aarch64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX  
;processor=aarch64, freebsd/amd64/libzstd-jni.so;osname=FreeBSD;proce  
ssor=amd64, freebsd/i386/libzstd-jni.so;osname=FreeBSD;processor=i386  
, linux/aarch64/libzstd-jni.so;osname=Linux;processor=aarch64, linux/  
amd64/libzstd-jni.so;osname=Linux;processor=amd64, linux/arm/libzstd-  
jni.so;osname=Linux;processor=arm, linux/i386/libzstd-jni.so;osname=L  
inux;processor=i386, linux/mips64/libzstd-jni.so;osname=Linux;process  
or=mips64, linux/ppc64/libzstd-jni.so;osname=Linux;processor=ppc64, l  
inux/ppc64le/libzstd-jni.so;osname=Linux;processor=ppc64le, linux/s39  
0x/libzstd-jni.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni  
.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni.dll;osname=Win  
32;processor=x86

Bundle-SymbolicName: com.github.luben.zstd-jni

Bundle-Vendor: com.github.luben

Bundle-Version: 1.4.9.1

Created-By: 1.8.0\_275 (Debian)

Export-Package: com.github.luben.zstd;version="1.4.9.1",com.github.lub  
en.zstd.util;version="1.4.9.1"

Implementation-Title: zstd-jni  
Implementation-Vendor: com.github.luben  
Implementation-Vendor-Id: com.github.luben  
Implementation-Version: 1.4.9-1  
Import-Package: org.osgi.framework;resolution:=optional  
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,aix.ppc64,darwin.x86\_64,darwin.aarch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Specification-Title: zstd-jni  
Specification-Vendor: com.github.luben  
Specification-Version: 1.4.9-1  
Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1176808707\_1624967190.04/0/zstd-jni-1-4-9-1-jar/META-INF/MANIFEST.MF

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## 1.298 saaj 1.5.1

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stax2-api (4.1)

\* License: Pending

\* Project: <https://github.com/FasterXML/stax2-api>

\* Source:

<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

testng (6.14.2)

\* License: Apache-2.0 AND MIT

\* Project: <https://testng.org/doc/index.html>

\* Source: <https://github.com/cbeust/testng>

woodstox-core-asl (4.4.1)

\* License: Apache-2.0

woodstox-core-asl (5.1.0)

\* License: Apache-2.0

\* Project: <https://github.com/FasterXML/woodstox>

\* Source: <https://github.com/FasterXML/woodstox>

ws-addr.wsd (1.0)

\* License: W3C

\* Project: <https://www.w3.org/2005/08/addressing/>

\* Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

\* License: Oasis Style

\* Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>

\* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

wscor.xsd (1.0)

\* License: OASIS Style

wscor.xsd (1.1)

\* License: Oasis (Custom)

\* Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>

\* Source:

<http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wsrcm Version: 2005/02 (n/a)

\* License: Oasis (Custom)

\* Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>

\* Source:

<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrcm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsrcm-policy.xsd>

wsrcm.xsd (1.2)

\* License: Oasis

wsrcx-wsat.xsd (1.1)

\* License: Oasis (Custom)

xmlsec (1.5.8)

\* License: Apache-2.0

\* Project: <http://santuario.apache.org/>

\* Source:

<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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## 1.299 jackson 1.8.5

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```
/* Jackson JSON-processor.
```

```
*
```

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*/
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Found in path(s):

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/util/ByteArrayBuilder.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/JsonParser.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/JsonFactory.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/JsonStreamContext.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/Base64Variant.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-
```



jar/org/codehaus/jackson/Base64Variants.java  
\* /opt/cola/permits/1026426916\_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/JsonGenerator.java

## 1.300 javax-ws-rs-api 2.1.1

### 1.301 bzip2 1.0.5

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

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\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with

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<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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\* /opt/cola/permits/1146221464\_1616477529.06/0/error-prone-annotations-2-5-1-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

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# 1.312 aopalliance-repackaged 2.4.0

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Found in path(s):

\* /opt/cola/permits/1146047246\_1616454677.06/0/aopalliance-repackaged-2-4-0-sources-1-jar/pom.xml

## 1.313 jackson-dataformat-csv 2.10.5

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Manifest-Version: 1.0

Bnd-LastModified: 1595302282882

Build-Jdk: 1.8.0\_162

Built-By: tatu

Bundle-Description: Support for reading and writing CSV-encoded data via Jacksonabstractions.

Bundle-DocURL: <https://github.com/FasterXML/jackson-dataformats-text>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Jackson-dataformat-CSV

Bundle-SymbolicName: com.fasterxml.jackson.dataformat.jackson-dataform

at-csv

Bundle-Vendor: FasterXML

Bundle-Version: 2.10.5

Created-By: Apache Maven Bundle Plugin

Export-Package: com.fasterxml.jackson.dataformat.csv;version="2.10.5";  
uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.core.base,com  
.fasterxml.jackson.core.format,com.fasterxml.jackson.core.io,com.fast  
erxml.jackson.core.json,com.fasterxml.jackson.core.type,com.fasterxml  
.jackson.core.util,com.fasterxml.jackson.databind,com.fasterxml.jacks  
on.databind.cfg,com.fasterxml.jackson.databind.util,com.fasterxml.jac  
kson.dataformat.csv.impl",com.fasterxml.jackson.dataformat.csv.impl;v  
ersion="2.10.5";uses:="com.fasterxml.jackson.core,com.fasterxml.jacks  
on.core.format,com.fasterxml.jackson.core.io,com.fasterxml.jackson.co  
re.json,com.fasterxml.jackson.core.util,com.fasterxml.jackson.datafor  
mat.csv"

Implementation-Build-Date: 2020-07-21 03:31:04+0000

Implementation-Title: Jackson-dataformat-CSV

Implementation-Vendor: FasterXML

Implementation-Vendor-Id: com.fasterxml.jackson.dataformat

Implementation-Version: 2.10.5

Import-Package: com.fasterxml.jackson.core;version="[2.10,3)",com.fast  
erxml.jackson.core.base;version="[2.10,3)",com.fasterxml.jackson.core  
.format;version="[2.10,3)",com.fasterxml.jackson.core.io;version="[2.  
10,3)",com.fasterxml.jackson.core.json;version="[2.10,3)",com.fasterx  
ml.jackson.core.type;version="[2.10,3)",com.fasterxml.jackson.core.ut  
il;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,3  
)",com.fasterxml.jackson.databind.cfg;version="[2.10,3)",com.fasterxm  
l.jackson.databind.introspect;version="[2.10,3)",com.fasterxml.jacks  
on.databind.util;version="[2.10,3)",com.fasterxml.jackson.dataformat.c  
sv;version="[2.10,3)",com.fasterxml.jackson.dataformat.csv.impl;versi  
on="[2.10,3)"

Private-Package: com.fasterxml.jackson.dataformat.csv.impl

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Specification-Title: Jackson-dataformat-CSV

Specification-Vendor: FasterXML

Specification-Version: 2.10.5

Tool: Bnd-4.2.0.201903051501

X-Compile-Source-JDK: 1.7

X-Compile-Target-JDK: 1.7

Found in path(s):

\* /opt/cola/permits/1154615200\_1618868383.1/0/jackson-dataformat-csv-2-10-5-5-jar/META-INF/MANIFEST.MF

## 1.314 batik-parser 1.11

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl



These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----  
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.317 jboss-logging 3.1.0.GA

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Version 2.1, February 1999

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# 1.318 jackson 2.12.4

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## 1.319 oauth 20100527

## 1.320 activation-api 1.2.0

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```
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Expr.java,v 1.14 2006/11/30 18:49:26
 * elharo Exp $
 * $Revision: 1.14 $
 * $Date: 2006/11/30 18:49:26 $
 *
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* $Id: Expr.java,v 1.14 2006/11/30 18:49:26 elharo Exp $
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```

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```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/Expr.java

```

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```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanEqualExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
*
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* $Id: DefaultGreaterThanEqualExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
*/

```

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```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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```

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```

/*

```

```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/UpperFunction.java,v 1.11
2006/02/05 21:47:42 elharo Exp $

```

```

* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:42 $
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*
* $Id: UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/UpperFunction.java

```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorAxis.java,v 1.7
2006/06/03 20:50:12 elharo Exp $
 * $Revision: 1.7 $
 * $Date: 2006/06/03 20:50:12 $
 *
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 *
 * $Id: IterableAncestorAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
```

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableAncestorAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableParentAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

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\*  
\* \$Id: IterableParentAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableParentAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Operator.java,v 1.5 2006/02/05  
21:47:42 elharo Exp \$

\* \$Revision: 1.5 \$

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\* \$Id: Operator.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnionExpr.java,v 1.7 2006/11/08 15:57:20  
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\* \$Revision: 1.7 \$

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21:47:41 elharo Exp \$

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\*  
\* \$Id: FunctionContext.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/FunctionContext.java

No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/LocationPathPattern.java,v 1.15  
2006/02/05 21:47:42 elharo Exp \$  
\* \$Revision: 1.15 \$  
\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/pattern/LocationPathPattern.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java,v  
1.7 2006/06/03 20:47:22 elharo Exp \$  
\* \$Revision: 1.7 \$  
\* \$Date: 2006/06/03 20:47:22 \$

\*  
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* $Id: IterablePrecedingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java

```

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java,v
1.7 2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
*
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\* \$Id: IterableDescendantOrSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultVariableReferenceExpr.java,v 1.16  
2006/11/30 18:49:26 elharo Exp \$  
\* \$Revision: 1.16 \$  
\* \$Date: 2006/11/30 18:49:26 \$

```

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* $Id: DefaultVariableReferenceExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultVariableReferenceExpr.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NumberFunction.java,v 1.18
2006/02/05 21:47:41 elharo Exp $
 * $Revision: 1.18 $
 * $Date: 2006/02/05 21:47:41 $
 *
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 *
 * $Id: NumberFunction.java,v 1.18 2006/02/05 21:47:41 elharo Exp $
 */
```

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NumberFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingSiblingAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/11/09 18:20:12 \$

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\* \$Id: FollowingSiblingAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp \$  
\*/

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\*/opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAllNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/30 18:49:27 \$

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* $Id: DefaultAllNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultAllNodeStep.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorOrSelfAxisIterator.java,v 1.14
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/09 18:20:12 $
*
* =====
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\* \$Id: AncestorOrSelfAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/DefaultXPathHandler.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/02/05 21:47:42 \$

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jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/TrueFunction.java,v 1.9 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: TrueFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/TrueFunction.java

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16:47:30 elharo Exp \$  
\* \$Revision: 1.9 \$  
\* \$Date: 2006/11/08 16:47:30 \$  
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*
* $Id: MultiplicativeExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/MultiplicativeExpr.java

```

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```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultStep.java,v 1.21 2006/02/05
21:47:40 elharo Exp $
* $Revision: 1.21 $
* $Date: 2006/02/05 21:47:40 $
*

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* $Id: DefaultStep.java,v 1.21 2006/02/05 21:47:40 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultStep.java
```

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```
/*
```



\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTextNodeStep.java,v 1.14  
2006/11/30 18:49:27 elharo Exp \$  
\* \$Revision: 1.14 \$  
\* \$Date: 2006/11/30 18:49:27 \$  
\*  
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\*  
\* \$Id: DefaultTextNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultTextNodeStep.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnresolvableException.java,v 1.7 2006/06/03 20:21:05 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:21:05 \$

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\*  
\* \$Id: UnresolvableException.java,v 1.7 2006/06/03 20:21:05 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/UnresolvableException.java

No license file was found, but licenses were detected in source scan.

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.5 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/SAXPathEventSource.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/AnyChildNodeTest.java,v 1.6  
2006/02/05 21:47:42 elharo Exp \$  
\* \$Revision: 1.6 \$  
\* \$Date: 2006/02/05 21:47:42 \$  
\*

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\* \$Id: AnyChildNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/pattern/AnyChildNodeTest.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NumberExpr.java,v 1.8 2006/11/08  
17:17:32 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/11/08 17:17:32 \$

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\* \$Id: NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp \$

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jar/org/jaxen/expr/NumberExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultEqualsExpr.java,v 1.13 2006/11/30  
18:49:26 elharo Exp \$

\* \$Revision: 1.13 \$

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\* \$Id: DefaultEqualsExpr.java,v 1.13 2006/11/30 18:49:26 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultEqualsExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/TextNodeStep.java,v 1.6 2006/11/08  
18:52:02 elharo Exp \$  
\* \$Revision: 1.6 \$  
\* \$Date: 2006/11/08 18:52:02 \$

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\* \$Id: TextNodeStep.java,v 1.6 2006/11/08 18:52:02 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/TextNodeStep.java  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableSelfAxis.java,v 1.7 2006/06/03  
20:47:22 elharo Exp \$  
\* \$Revision: 1.7 \$  
\* \$Date: 2006/06/03 20:47:22 \$  
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* $Id: IterableSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

```

Found in path(s):

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableSelfAxis.java

```

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DocumentNavigator.java,v 1.57
2007/05/05 18:08:55 elharo Exp $
* $Revision: 1.57 $
* $Date: 2007/05/05 18:08:55 $
*
* =====

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* $Id: DocumentNavigator.java,v 1.57 2007/05/05 18:08:55 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/dom/DocumentNavigator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringBeforeFunction.java,v 1.10  
2006/02/05 21:47:41 elharo Exp \$  
\* \$Revision: 1.10 \$  
\* \$Date: 2006/02/05 21:47:41 \$  
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\*  
\* \$Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/SubstringBeforeFunction.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Step.java,v 1.13 2006/12/10 15:32:14 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/12/10 15:32:14 \$

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\* \$Id: Step.java,v 1.13 2006/12/10 15:32:14 elharo Exp \$  
\*/

Found in path(s):

\*/opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/Step.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$  
\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/pattern/NamespaceTest.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathExpr.java,v 1.9 2006/06/03  
20:52:26 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/06/03 20:52:26 \$

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\* \$Id: DefaultXPathExpr.java,v 1.9 2006/06/03 20:52:26 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultXPathExpr.java

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\$Id: DefaultNameStep.java,v 1.53 2007/04/17 01:26:35 bewins Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathException.java,v 1.14 2006/06/03 20:28:45 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/06/03 20:28:45 \$

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\* \$Id: SAXPathException.java,v 1.14 2006/06/03 20:28:45 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/SAXPathException.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NotFunction.java,v 1.9 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.9 \$  
\* \$Date: 2006/02/05 21:47:41 \$  
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\* \$Id: NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2006/02/05 21:47:40 \$

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jar/org/jaxen/expr/DefaultTruthExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultUnionExpr.java,v 1.17 2006/11/30  
18:49:27 elharo Exp \$

\* \$Revision: 1.17 \$

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\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/Function.java,v 1.8 2006/02/05 21:47:41 elharo  
Exp \$  
\* \$Revision: 1.8 \$  
\* \$Date: 2006/02/05 21:47:41 \$  
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\* \$Id: Function.java,v 1.8 2006/02/05 21:47:41 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FalseFunction.java,v 1.11 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.11 \$  
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* $Id: FalseFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/BooleanFunction.java,v 1.17
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: BooleanFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/BooleanFunction.java

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/*

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultModExpr.java,v 1.15 2006/11/30

```

18:49:26 elharo Exp \$

\* \$Revision: 1.15 \$

\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Id: DefaultModExpr.java,v 1.15 2006/11/30 18:49:26 elharo Exp \$

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Found in path(s):



\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultModExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMultiplyExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultMultiplyExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultMultiplyExpr.java

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/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EvaluateFunction.java,v 1.10
2006/02/05 21:47:42 elharo Exp $
 * $Revision: 1.10 $
 * $Date: 2006/02/05 21:47:42 $
 *
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 *
 * $Id: EvaluateFunction.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
```

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ext/EvaluateFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPathExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp \$

\* \$Revision: 1.16 \$

\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Id: DefaultPathExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultPathExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathFactory.java,v 1.17  
2006/11/09 16:07:36 elharo Exp \$

\* \$Revision: 1.17 \$

\* \$Date: 2006/11/09 16:07:36 \$

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\* \$Id: DefaultXPathFactory.java,v 1.17 2006/11/09 16:07:36 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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jar/org/jaxen/JaxenConstants.java  
\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/JaxenRuntimeException.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.13 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/ProcessingInstructionNodeStep.java,v 1.5  
2006/11/08 15:44:33 elharo Exp \$

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11:58:06 elharo Exp \$

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\*  
\* \$Id: NamespaceContext.java,v 1.10 2006/07/03 11:58:06 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/NamespaceContext.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/DefaultNavigator.java,v 1.19 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.19 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: DefaultNavigator.java,v 1.19 2006/02/05 21:47:41 elharo Exp \$  
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jar/org/jaxen/DefaultNavigator.java

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21:47:41 elharo Exp \$  
\* \$Revision: 1.11 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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 \*  
 \* \$Id: NameFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/function/NameFunction.java

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\$Id: IterableChildAxis.java,v 1.11 2006/06/03 20:50:12 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ContainsFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: ContainsFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/ContainsFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SumFunction.java,v 1.11 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/02/05 21:47:41 \$

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 \* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/function/SumFunction.java  
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/\*  
 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultFunctionCallExpr.java,v 1.17  
 2006/11/30 18:49:27 elharo Exp \$  
 \* \$Revision: 1.17 \$  
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* $Id: DefaultFunctionCallExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp $
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```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultFunctionCallExpr.java

```

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/*

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/CommentNodeStep.java,v 1.6 2006/11/08
15:42:39 elharo Exp $

```

```

* $Revision: 1.6 $
* $Date: 2006/11/08 15:42:39 $
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* $Id: CommentNodeStep.java,v 1.6 2006/11/08 15:42:39 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/CommentNodeStep.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathFunctionContext.java,v 1.29 2006/11/08
13:59:38 elharo Exp $
 * $Revision: 1.29 $
 * $Date: 2006/11/08 13:59:38 $
 *
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NoNodeTest.java,v 1.7 2006/02/05

21:47:42 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringAfterFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/02/05 21:47:41 \$

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* $Id: SubstringAfterFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/
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```

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```
/*
```

\$Id: IterableAttributeAxis.java,v 1.9 2006/06/03 20:50:12 elharo Exp \$

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Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.java

No license file was found, but licenses were detected in source scan.

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/11/09 18:20:12 \$

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\* \$Id: DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/DescendantOrSelfAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAdditiveExpr.java,v 1.9  
2006/02/05 21:47:40 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/02/05 21:47:40 \$

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\* \$Id: DefaultAdditiveExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultAdditiveExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/xslt/DocumentFunction.java,v 1.6  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: DocumentFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/xslt/DocumentFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2007/05/02 14:33:29 \$

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\* \$Id: SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/SelfAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Axis.java,v 1.8 2006/03/30 13:56:36  
elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/03/30 13:56:36 \$

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\* \$Id: Axis.java,v 1.8 2006/03/30 13:56:36 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/Axis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringFunction.java,v 1.33 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.33 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: StringFunction.java,v 1.33 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/StringFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenHandler.java,v 1.15 2006/03/30 13:53:11  
elharo Exp \$

\* \$Revision: 1.15 \$

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\* \$Id: JaxenHandler.java,v 1.15 2006/03/30 13:53:11 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/JaxenHandler.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleNamespaceContext.java,v 1.18  
2006/06/03 20:19:26 elharo Exp \$  
\* \$Revision: 1.18 \$  
\* \$Date: 2006/06/03 20:19:26 \$

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\* \$Id: SimpleNamespaceContext.java,v 1.18 2006/06/03 20:19:26 elharo Exp \$  
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jar/org/jaxen/SimpleNamespaceContext.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/XPathReader.java,v 1.32  
2006/04/07 23:47:37 elharo Exp \$  
\* \$Revision: 1.32 \$  
\* \$Date: 2006/04/07 23:47:37 \$

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 \* \$Id: XPathReader.java,v 1.32 2006/04/07 23:47:37 elharo Exp \$  
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 \* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/saxpath/base/XPathReader.java  
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 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PathExpr.java,v 1.9 2007/05/02 14:26:41  
 elharo Exp \$  
 \* \$Revision: 1.9 \$  
 \* \$Date: 2007/05/02 14:26:41 \$

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\* \$Id: PathExpr.java,v 1.9 2007/05/02 14:26:41 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/PathExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FilterExpr.java,v 1.10 2006/11/08  
 16:28:04 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2006/11/08 16:28:04 \$

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\* \$Id: FilterExpr.java,v 1.10 2006/11/08 16:28:04 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/FilterExpr.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultNotEqualsExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
 * $Revision: 1.14 $
 * $Date: 2006/11/30 18:49:27 $
 *
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 *
 * $Id: DefaultNotEqualsExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
```

\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultNotEqualsExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultDivExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultDivExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/RoundFunction.java,v 1.12 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.12 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: RoundFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp \$

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jar/org/jaxen/function/RoundFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultCommentNodeStep.java,v 1.14  
2006/11/30 18:49:27 elharo Exp \$

\* \$Revision: 1.14 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Predicate.java,v 1.14 2007/05/02 14:27:46  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/XPathLexer.java,v 1.17  
2006/02/05 21:47:42 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableDescendantAxis.java,v 1.7  
2006/06/03 20:47:22 elharo Exp \$  
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\* \$Id: IterableDescendantAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$  
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 \* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java  
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 \* \$Header:  
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\* \$Id: DefaultProcessingInstructionNodeStep.java,v 1.18 2007/01/06 12:21:12 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java,v 1.7  
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\* \$Revision: 1.7 \$



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\*

\* \$Id: IterableAncestorOrSelfAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LocalNameFunction.java,v 1.14
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:41 $
*
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*
* $Id: LocalNameFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
```

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/LocalNameFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.5 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/base/Token.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultEqualityExpr.java,v 1.14  
2006/02/05 21:47:40 elharo Exp \$  
\* \$Revision: 1.14 \$  
\* \$Date: 2006/02/05 21:47:40 \$  
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\* \$Id: DefaultEqualityExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultEqualityExpr.java

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/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanEqualExpr.java,v 1.14  
2006/11/30 18:49:26 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/30 18:49:26 \$

\*

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\* \$Id: DefaultLessThanEqualExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultLessThanEqualExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/RelationalExpr.java,v 1.6 2006/11/09  
16:21:05 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/11/09 16:21:05 \$

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\* \$Id: RelationalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/RelationalExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NormalizeSpaceFunction.java,v 1.17  
2006/02/05 21:47:41 elharo Exp \$  
\* \$Revision: 1.17 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: NormalizeSpaceFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/NormalizeSpaceFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LogicalExpr.java,v 1.6 2006/11/09  
16:21:05 elharo Exp \$  
\* \$Revision: 1.6 \$  
\* \$Date: 2006/11/09 16:21:05 \$

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* $Id: LogicalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/LogicalExpr.java

```

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleVariableContext.java,v 1.19 2006/06/03
20:19:54 elharo Exp $
* $Revision: 1.19 $
* $Date: 2006/06/03 20:19:54 $
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* $Id: SimpleVariableContext.java,v 1.19 2006/06/03 20:19:54 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/SimpleVariableContext.java

```

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/*

```

```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/EqualityExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp $

```

```

* $Revision: 1.6 $

```

```

* $Date: 2006/11/09 16:21:05 $

```

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*
* $Id: EqualityExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/EqualityExpr.java

```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/StackedIterator.java,v 1.12 2006/02/05
21:47:40 elharo Exp $
 * $Revision: 1.12 $
 * $Date: 2006/02/05 21:47:40 $
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 *
 * $Id: StackedIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp $
 */
```

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/StackedIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/VariableContext.java,v 1.11 2006/07/03 11:58:31 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/07/03 11:58:31 \$

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\*  
\* \$Id: VariableContext.java,v 1.11 2006/07/03 11:58:31 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/VariableContext.java

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/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/Pattern.java,v 1.13 2006/04/07 17:11:52 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/04/07 17:11:52 \$

\*

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*
* $Id: Pattern.java,v 1.13 2006/04/07 17:11:52 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/Pattern.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NameStep.java,v 1.5 2006/11/08 17:10:02
elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/11/08 17:10:02 $
*
* =====
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* =====
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\* \$Id: NameStep.java,v 1.5 2006/11/08 17:10:02 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/NameStep.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabean/JavaBeanXPath.java,v 1.6 2006/06/03  
20:36:00 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/06/03 20:36:00 \$

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\* \$Id: JavaBeanXPath.java,v 1.6 2006/06/03 20:36:00 elharo Exp \$

\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/javabean/JavaBeanXPath.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: NodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/pattern/NodeTest.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableNamespaceAxis.java,v 1.7  
2006/06/03 20:47:22 elharo Exp \$  
\* \$Revision: 1.7 \$  
\* \$Date: 2006/06/03 20:47:22 \$  
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\*  
\* \$Id: IterableNamespaceAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/iter/IterableNamespaceAxis.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAbsolutePath.java,v 1.18  
2006/11/30 18:49:27 elharo Exp \$  
\* \$Revision: 1.18 \$  
\* \$Date: 2006/11/30 18:49:27 \$  
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* $Id: DefaultAbsolutePath.java,v 1.18 2006/11/30 18:49:27 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultAbsolutePath.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java,v
1.7 2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterableFollowingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

```

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathHandler.java,v 1.9 2006/02/05

```

21:47:42 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: XPathHandler.java,v 1.9 2006/02/05 21:47:42 elharo Exp \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp \$

\* \$Revision: 1.10 \$

\* \$Date: 2006/06/03 20:44:16 \$

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\*  
\* \$Id: DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/DOMXPath.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathReader.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$  
\* \$Date: 2006/02/05 21:47:42 \$

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* $Id: XPathReader.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/XPathReader.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelativeLocationPath.java,v 1.13
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/11/30 18:49:27 $
*
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\* \$Id: DefaultRelativeLocationPath.java,v 1.13 2006/11/30 18:49:27 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultRelativeLocationPath.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/CeilingFunction.java,v 1.11  
2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/02/05 21:47:41 \$

\*

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\* \$Id: CeilingFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/CeilingFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FunctionCallExpr.java,v 1.9 2006/11/08  
16:37:59 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/11/08 16:37:59 \$

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\* \$Id: FunctionCallExpr.java,v 1.9 2006/11/08 16:37:59 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/FunctionCallExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathSyntaxException.java,v 1.12 2006/06/03  
20:26:36 elharo Exp \$  
\* \$Revision: 1.12 \$  
\* \$Date: 2006/06/03 20:26:36 \$  
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 \* \$Id: XPathSyntaxException.java,v 1.12 2006/06/03 20:26:36 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/XPathSyntaxException.java

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 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StartsWithFunction.java,v 1.11  
 2006/02/05 21:47:41 elharo Exp \$  
 \* \$Revision: 1.11 \$  
 \* \$Date: 2006/02/05 21:47:41 \$  
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* $Id: StartsWithFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/StartsWithFunction.java

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/*

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$Id: NamedAccessNavigator.java,v 1.4 2006/02/05 21:47:41 elharo Exp $

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringLengthFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.12 \$

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\*  
\* \$Id: StringLengthFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/StringLengthFunction.java  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternParser.java,v 1.18 2006/02/05  
21:47:42 elharo Exp \$  
\* \$Revision: 1.18 \$  
\* \$Date: 2006/02/05 21:47:42 \$  
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 \* \$Id: PatternParser.java,v 1.18 2006/02/05 21:47:42 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/pattern/PatternParser.java

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 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AdditiveExpr.java,v 1.6 2006/11/09  
 16:21:05 elharo Exp \$  
 \* \$Revision: 1.6 \$  
 \* \$Date: 2006/11/09 16:21:05 \$  
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* $Id: AdditiveExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
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jar/org/jaxen/expr/AdditiveExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/LinkedIterator.java,v 1.8 2006/11/09  
18:20:12 elharo Exp \$  
\* \$Revision: 1.8 \$  
\* \$Date: 2006/11/09 18:20:12 \$  
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\* \$Id: LinkedIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/LinkedIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/AnyNodeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: AnyNodeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/Navigator.java,v 1.30 2006/06/03 20:07:19  
elharo Exp \$

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\* \$Id: Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/Navigator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/PositionFunction.java,v 1.11  
2006/02/05 21:47:41 elharo Exp \$  
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\*

\* \$Id: PositionFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/PositionFunction.java

No license file was found, but licenses were detected in source scan.

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/DescendantAxisIterator.java,v 1.13  
2006/11/09 18:20:11 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/11/09 18:20:11 \$

\*

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\* \$Id: DescendantAxisIterator.java,v 1.13 2006/11/09 18:20:11 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/DescendantAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/TextNodeTest.java,v 1.6 2006/02/05  
21:47:42 elharo Exp \$

\* \$Revision: 1.6 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\* \$Id: TextNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/pattern/TextNodeTest.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPlusExpr.java,v 1.14 2006/11/30  
18:49:26 elharo Exp \$  
\* \$Revision: 1.14 \$  
\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Id: DefaultPlusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$  
\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultPlusExpr.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTypeTest.java,v 1.8 2006/02/05  
21:47:42 elharo Exp \$  
\* \$Revision: 1.8 \$  
\* \$Date: 2006/02/05 21:47:42 \$  
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* $Id: NodeTypeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
*/

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Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NodeTypeTest.java

```

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LocaleFunctionSupport.java,v 1.10
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:42 $
*
* =====

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*
* $Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/LocaleFunctionSupport.java

```

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```

/*

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/IdFunction.java,v 1.13 2006/02/05

```

21:47:41 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: IdFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/function/IdFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathFactory.java,v 1.13 2007/05/02  
14:32:38 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2007/05/02 14:32:38 \$

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\* \$Id: XPathFactory.java,v 1.13 2007/05/02 14:32:38 elharo Exp \$  
\*/

Found in path(s):

\*/opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/XPathFactory.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultFilterExpr.java,v 1.19 2006/11/30 18:49:26 elharo Exp \$

\* \$Revision: 1.19 \$  
\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Id: DefaultFilterExpr.java,v 1.19 2006/11/30 18:49:26 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultFilterExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultArithExpr.java,v 1.10 2006/02/05  
21:47:40 elharo Exp \$

\* \$Revision: 1.10 \$

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\* \$Id: DefaultArithExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp \$  
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jar/org/jaxen/expr/DefaultArithExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenException.java,v 1.17 2006/06/03  
20:27:21 elharo Exp \$

\* \$Revision: 1.17 \$

\* \$Date: 2006/06/03 20:27:21 \$

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ConcatFunction.java,v 1.9 2006/02/05  
21:47:41 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: ConcatFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/ConcatFunction.java

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\* \$Id\$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/NodeComparator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NameTest.java,v 1.7 2006/02/05  
21:47:42 elharo Exp \$  
\* \$Revision: 1.7 \$  
\* \$Date: 2006/02/05 21:47:42 \$

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* $Id: NameTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NameTest.java

```

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/CountFunction.java,v 1.14 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:41 $
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/CountFunction.java  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultBinaryExpr.java,v 1.10 2007/01/05  
18:25:43 elharo Exp \$  
\* \$Revision: 1.10 \$  
\* \$Date: 2007/01/05 18:25:43 \$

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\* \$Id: DefaultBinaryExpr.java,v 1.10 2007/01/05 18:25:43 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultBinaryExpr.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionCallException.java,v 1.13 2006/07/16
11:07:25 elharo Exp $
 * $Revision: 1.13 $
 * $Date: 2006/07/16 11:07:25 $
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 *
 * $Id: FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp $
 */
```



Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/FunctionCallException.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterablePrecedingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/06/03 20:47:22 \$

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\*/

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\*/opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterablePrecedingAxis.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLiteralExpr.java,v 1.13 2007/01/03 20:47:42 elharo Exp \$

\* \$Revision: 1.13 \$

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*
* $Id: DefaultLiteralExpr.java,v 1.13 2007/01/03 20:47:42 elharo Exp $
*/
```

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```
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLiteralExpr.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/UnionPattern.java,v 1.8 2006/02/05  
21:47:42 elharo Exp \$

\* \$Revision: 1.8 \$

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 \* \$Id: VariableReferenceExpr.java,v 1.8 2006/11/08 19:20:29 elharo Exp \$  
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 2006/11/30 18:49:26 elharo Exp \$  
 \* \$Revision: 1.13 \$  
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\* \$Id: DefaultNumberExpr.java,v 1.13 2006/11/30 18:49:26 elharo Exp \$  
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jar/org/jaxen/expr/DefaultNumberExpr.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LangFunction.java,v 1.13 2006/02/05  
21:47:41 elharo Exp \$  
\* \$Revision: 1.13 \$  
\* \$Date: 2006/02/05 21:47:41 \$  
\*  
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* $Id: LangFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/LangFunction.java

```

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```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingleObjectIterator.java,v 1.8 2006/11/09
18:20:12 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/09 18:20:12 $
*
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*
* $Id: SingleObjectIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/SingleObjectIterator.java

```

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/*

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingAxisIterator.java,v 1.8

```

2006/11/09 18:20:12 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/11/09 18:20:12 \$

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\* \$Id: FollowingAxisIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$

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Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/FollowingAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/02/05 21:47:40 \$

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\*  
\* \$Id: DefaultExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultExpr.java

No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/02/05 21:47:40 \$

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\*  
\* \$Id: DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultLogicalExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMinusExpr.java,v 1.14 2006/11/30  
18:49:26 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/30 18:49:26 \$

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\* \$Id: DefaultMinusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$

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Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultMinusExpr.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathSyntaxException.java,v 1.10  
2006/06/03 20:29:30 elharo Exp \$

\* \$Revision: 1.10 \$

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\* \$Id: XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp \$

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Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/saxpath/XPathSyntaxException.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/BaseXPath.java,v 1.50 2007/04/16 15:44:37  
elharo Exp \$

\* \$Revision: 1.50 \$

\* \$Date: 2007/04/16 15:44:37 \$

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\* \$Id: BaseXPath.java,v 1.50 2007/04/16 15:44:37 elharo Exp \$  
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Found in path(s):  
\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/BaseXPath.java  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnsupportedAxisException.java,v 1.11  
2006/06/03 20:26:02 elharo Exp \$  
\* \$Revision: 1.11 \$  
\* \$Date: 2006/06/03 20:26:02 \$

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\*  
\* \$Id: UnsupportedAxisException.java,v 1.11 2006/06/03 20:26:02 elharo Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/UnsupportedAxisException.java  
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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05  
21:47:42 elharo Exp \$  
\* \$Revision: 1.8 \$  
\* \$Date: 2006/02/05 21:47:42 \$  
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* $Id: PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/PatternHandler.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/TranslateFunction.java,v 1.10
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: TranslateFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/TranslateFunction.java

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/*

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelationalExpr.java,v 1.14

```

2006/02/05 21:47:40 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/02/05 21:47:40 \$

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\* \$Id: DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/expr/DefaultRelationalExpr.java

No license file was found, but licenses were detected in source scan.

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/TokenTypes.java,v 1.12  
2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.12 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: TokenTypes.java,v 1.12 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/TokenTypes.java

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/\*  
\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LastFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.10 \$  
\* \$Date: 2006/02/05 21:47:41 \$

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\* \$Id: LastFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/LastFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingAxisIterator.java,v 1.11  
2006/11/13 22:10:09 elharo Exp \$

\* \$Revision: 1.11 \$

\* \$Date: 2006/11/13 22:10:09 \$

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\* \$Id: PrecedingAxisIterator.java,v 1.11 2006/11/13 22:10:09 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/PrecedingAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingletonList.java,v 1.4 2006/11/09  
16:39:19 elharo Exp \$

\* \$Revision: 1.4 \$

\* \$Date: 2006/11/09 16:39:19 \$

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\* \$Id: SingletonList.java,v 1.4 2006/11/09 16:39:19 elharo Exp \$

\*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/util/SingletonList.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/QualifiedName.java,v 1.12 2006/06/01  
13:19:30 elharo Exp \$

\* \$Revision: 1.12 \$

\* \$Date: 2006/06/01 13:19:30 \$

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\* \$Id: QualifiedName.java,v 1.12 2006/06/01 13:19:30 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/QualifiedName.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultOrExpr.java,v 1.17 2006/11/30  
18:49:26 elharo Exp \$  
\* \$Revision: 1.17 \$  
\* \$Date: 2006/11/30 18:49:26 \$  
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* $Id: DefaultOrExpr.java,v 1.17 2006/11/30 18:49:26 elharo Exp $
*/

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Found in path(s):

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultOrExpr.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLocationPath.java,v 1.29
2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.29 $
* $Date: 2006/02/05 21:47:40 $
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 \* \$Id: DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp \$  
 \*/

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/DefaultLocationPath.java

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/\*  
 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LowerFunction.java,v 1.11  
 2006/02/05 21:47:42 elharo Exp \$  
 \* \$Revision: 1.11 \$  
 \* \$Date: 2006/02/05 21:47:42 \$  
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* $Id: LowerFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
*/

```

Found in path(s):

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/LowerFunction.java

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/*

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringFunction.java,v 1.16

```

2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.16 \$

\* \$Date: 2006/02/05 21:47:41 \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/function/SubstringFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/XPathReaderFactory.java,v 1.9  
2006/09/15 20:41:38 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/09/15 20:41:38 \$

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\* \$Id: XPathReaderFactory.java,v 1.9 2006/09/15 20:41:38 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EndsWithFunction.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$

\* \$Revision: 1.7 \$

\* \$Date: 2006/02/05 21:47:42 \$

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\*  
\* \$Id: EndsWithFunction.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/function/ext/EndsWithFunction.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPredicate.java,v 1.13 2006/11/30  
18:49:27 elharo Exp \$

\* \$Revision: 1.13 \$

\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultPredicate.java,v 1.13 2006/11/30 18:49:27 elharo Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/DefaultPredicate.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorAxisIterator.java,v 1.14  
2006/11/09 18:20:12 elharo Exp \$

\* \$Revision: 1.14 \$

\* \$Date: 2006/11/09 18:20:12 \$

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\* \$Id: AncestorAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp \$

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jar/org/jaxen/util/AncestorAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/BinaryExpr.java,v 1.8 2006/11/09  
16:21:04 elharo Exp \$

\* \$Revision: 1.8 \$

\* \$Date: 2006/11/09 16:21:04 \$

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\* \$Id: BinaryExpr.java,v 1.8 2006/11/09 16:21:04 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16  
2006/11/13 22:10:09 elharo Exp \$

\* \$Revision: 1.16 \$

\* \$Date: 2006/11/13 22:10:09 \$

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jar/org/jaxen/util/PrecedingSiblingAxisIterator.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAndExpr.java,v 1.16 2006/11/30  
18:49:27 elharo Exp \$

\* \$Revision: 1.16 \$

\* \$Date: 2006/11/30 18:49:27 \$

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\* \$Id: DefaultAndExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp \$  
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 \* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/DefaultAndExpr.java  
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/\*  
 \* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleFunctionContext.java,v 1.14 2006/02/05  
 21:47:41 elharo Exp \$  
 \* \$Revision: 1.14 \$  
 \* \$Date: 2006/02/05 21:47:41 \$

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* $Id: SimpleFunctionContext.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/SimpleFunctionContext.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.6 2006/11/08
15:41:05 elharo Exp $

```

```

* $Revision: 1.6 $

```

\* \$Date: 2006/11/08 15:41:05 \$

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\* \$Id: AllNodeStep.java,v 1.6 2006/11/08 15:41:05 elharo Exp \$

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jar/org/jaxen/expr/AllNodeStep.java



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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathExpr.java,v 1.9 2007/05/02 15:04:46
elharo Exp $
 * $Revision: 1.9 $
 * $Date: 2007/05/02 15:04:46 $
 *
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 * $Id: XPathExpr.java,v 1.9 2007/05/02 15:04:46 elharo Exp $
```

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FloorFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

\* \$Revision: 1.11 \$

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\* \$Id: FloorFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$  
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jar/org/jaxen/function/FloorFunction.java

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2006/02/05 21:47:40 elharo Exp \$

\* \$Revision: 1.9 \$

\* \$Date: 2006/02/05 21:47:40 \$

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22:38:17 elharo Exp \$

\* \$Revision: 1.23 \$

\* \$Date: 2006/11/13 22:38:17 \$

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\* \$Id: PredicateSet.java,v 1.23 2006/11/13 22:38:17 elharo Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
jar/org/jaxen/expr/PredicateSet.java

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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/NamespaceNode.java,v 1.25 2006/07/03  
11:14:05 elharo Exp \$

\* \$Revision: 1.25 \$

\* \$Date: 2006/07/03 11:14:05 \$

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\* \$Id: NamespaceNode.java,v 1.25 2006/07/03 11:14:05 elharo Exp \$  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnaryExpr.java,v 1.7 2006/11/08 19:06:30  
elharo Exp \$  
\* \$Revision: 1.7 \$  
\* \$Date: 2006/11/08 19:06:30 \$

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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanExpr.java,v 1.14  
2006/11/30 18:49:27 elharo Exp \$  
\* \$Revision: 1.14 \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
 jar/org/jaxen/expr/DefaultGreaterThanExpr.java

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\$Id: IterableAxis.java,v 1.9 2006/02/05 21:47:42 elharo Exp \$

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\* \$Revision: 1.9 \$

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\* \$Id: Predicated.java,v 1.9 2006/11/08 18:07:25 elharo Exp \$  
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\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanExpr.java,v 1.15  
2006/11/30 18:49:27 elharo Exp \$  
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\* \$Id: DefaultLessThanExpr.java,v 1.15 2006/11/30 18:49:27 elharo Exp \$  
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Found in path(s):

\* /opt/cola/permits/1000765675\_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-  
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\* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LocationPath.java,v 1.9 2006/11/08  
17:02:21 elharo Exp \$  
\* \$Revision: 1.9 \$  
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```
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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README.changes.

HISTORY -

Early versions of this collector were developed as a part of research

projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

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made it into the released version of the collector, yet.)  
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--- end ---

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# 1.327 libpng 1.5.10

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This is free software, and you are welcome to redistribute it
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```
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```

```
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Ty Coon, President of Vice
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```
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March 29, 2012

## 1.328 libjpeg 8c

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 *
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 *
 * This file contains routines to write JPEG datastream markers.
 */
```

Found in path(s):

```
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmarker.c
```

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```
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 * jmorecfg.h
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 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */
```

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```
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 *
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 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
```

\* jcsample.c for the downsampler's needs.

\*/

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\* jdpostct.c

\*

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\*

\* This file contains the decompression postprocessing controller.

\* This controller manages the upsampling, color conversion, and color

\* quantization/reduction steps; specifically, it controls the buffering

\* between upsample/color conversion and color quantization/reduction.

\*

\* If no color quantization/reduction is required, then this module has no

\* work to do, and it just hands off to the upsample/color conversion code.

\* An integrated upsample/convert/quantize process would replace this module

\* entirely.

\*/

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\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdpostct.c

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/\*

\* jerror.h

\*

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\* This file defines the error and message codes for the JPEG library.

\* Edit this file to add new codes, or to translate the message strings to

\* some other language.

\* A set of error-reporting macros are defined too. Some applications using

\* the JPEG library may wish to include this file to get the error codes

\* and/or the macros.

\*/

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 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */
```

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```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpeglib.h
```

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 *
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 *
 * This file contains software version identification.
 */
```

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```

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```
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```

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```
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 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
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 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
```

\*  
\* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1  
\* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec  
\* (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).  
\*/

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\* jmemdos.c

\*

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\*

\* This file provides an MS-DOS-compatible implementation of the system-

\* dependent portion of the JPEG memory manager. Temporary data can be

\* stored in extended or expanded memory as well as in regular DOS files.

\*

\* If you use this file, you must be sure that NEED\_FAR\_POINTERS is defined

\* if you compile in a small-data memory model; it should NOT be defined if

\* you use a large-data memory model. This file is not recommended if you

\* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.

\* Also, this code will NOT work if struct fields are aligned on greater than

\* 2-byte boundaries.

\*

\* Based on code contributed by Ge' Weijers.

\*/

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/\*

\* rdswitch.c

\*

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\*

\* This file contains routines to process some of cjpeg's more complicated

\* command-line switches. Switches processed here are:

\* -qtables file Read quantization tables from text file

\* -scans file Read scan script from text file

\* -quality N[,N,...] Set quality ratings

\* -qslots N[,N,...] Set component quantization table selectors

\* -sample HxV[,HxV,...] Set component sampling factors

\*/

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\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdswitch.c

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\* wrtarga.c

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\*

\* This file contains routines to write output images in Targa format.

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*

\* Based on code contributed by Lee Daniel Crocker.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrtarga.c

No license file was found, but licenses were detected in source scan.

/\*

\* wrtle.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to write output images in RLE format.

\* The Utah Raster Toolkit library is required (version 3.1 or later).

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*

\* Based on code contributed by Mike Lijewski,

\* with updates from Robert Hutchinson.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrtle.c

No license file was found, but licenses were detected in source scan.

```
/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cjpeg.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
```

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/\*

\* rdppm.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 2009 by Bill Allombert, Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to read input images in PPM/PGM format.

\* The extended 2-byte-per-sample raw PPM/PGM formats are supported.

\* The PBMPLUS library is NOT required to compile this software

\* (but it is highly useful as a set of PPM image manipulation programs).

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume input from

\* an ordinary stdio stream. They further assume that reading begins

\* at the start of the file; start\_input may need work if the

\* user interface has already read some data (e.g., to determine that

\* the file is indeed PPM format).

\*/

/\* Portions of this code are based on the PBMPLUS library, which is:

\*\*

\*\* Copyright (C) 1988 by Jef Poskanzer.

\*\*

\*\* Permission to use, copy, modify, and distribute this software and its

\*\* documentation for any purpose and without fee is hereby granted, provided

\*\* that the above copyright notice appear in all copies and that both that

\*\* copyright notice and this permission notice appear in supporting

\*\* documentation. This software is provided "as is" without express or

\*\* implied warranty.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdppm.c

No license file was found, but licenses were detected in source scan.

/\*

\* jdmerge.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.



```

*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
*  $R = Y + K1 * Cr$ 
*  $G = Y + K2 * Cb + K3 * Cr$ 
*  $B = Y + K4 * Cb$ 
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

```

Found in path(s):

```

* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmerge.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

```

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cderror.h

No license file was found, but licenses were detected in source scan.

/\*

\* jpegint.h

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 1997-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file provides common declarations for the various JPEG modules.

\* These declarations are considered internal to the JPEG library; most

\* applications using the library shouldn't need to include this file.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegint.h

No license file was found, but licenses were detected in source scan.

/\*

\* rdrle.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to read input images in Utah RLE format.

\* The Utah Raster Toolkit library is required (version 3.1 or later).

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume input from

\* an ordinary stdio stream. They further assume that reading begins

\* at the start of the file; start\_input may need work if the

\* user interface has already read some data (e.g., to determine that

\* the file is indeed RLE format).

\*

\* Based on code contributed by Mike Lijewski,

\* with updates from Robert Hutchinson.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdrle.c

No license file was found, but licenses were detected in source scan.

/\*

\* jdapimin.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.  
\* Modified 2009 by Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains application interface code for the decompression half  
\* of the JPEG library. These are the "minimum" API routines that may be  
\* needed in either the normal full-decompression case or the  
\* transcoding-only case.  
\*  
\* Most of the routines intended to be called directly by an application  
\* are in this file or in jdapistd.c. But also see jcomapi.c for routines  
\* shared by compression and decompression, and jdtrans.c for the transcoding  
\* case.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdapimin.c  
No license file was found, but licenses were detected in source scan.

/\*

\* rdbmp.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* Modified 2009-2010 by Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains routines to read input images in Microsoft "BMP"  
\* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).  
\* Currently, only 8-bit and 24-bit images are supported, not 1-bit or  
\* 4-bit (feeding such low-depth images into JPEG would be silly anyway).  
\* Also, we don't support RLE-compressed files.  
\*  
\* These routines may need modification for non-Unix environments or  
\* specialized applications. As they stand, they assume input from  
\* an ordinary stdio stream. They further assume that reading begins  
\* at the start of the file; start\_input may need work if the  
\* user interface has already read some data (e.g., to determine that  
\* the file is indeed BMP format).  
\*  
\* This code contributed by James Arthur Boucher.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdbmp.c  
No license file was found, but licenses were detected in source scan.

```
/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */
```

```
/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */
```

```
/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
```

```
#define HAVE_PROTOTYPES
```

```
/* Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ?
 */
```

```
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT
```

```
/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
```

```
/* #define void char */
```

```
/* Define "const" as empty if your compiler doesn't know the "const" keyword.
 */
```

```
/* #define const */
```

```
/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
```

\* If you defined HAVE\_UNSIGNED\_CHAR then the speed difference is minimal.

\*/

```
#undef CHAR_IS_UNSIGNED
```

/\* Define this if your system has an ANSI-conforming <stddef.h> file.

\*/

```
#define HAVE_STDDEF_H
```

/\* Define this if your system has an ANSI-conforming <stdlib.h> file.

\*/

```
#define HAVE_STDLIB_H
```

/\* Define this if your system does not have an ANSI/SysV <string.h>,

\* but does have a BSD-style <strings.h>.

\*/

```
#undef NEED_BSD_STRINGS
```

/\* Define this if your system does not provide typedef size\_t in any of the

\* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in

\* <sys/types.h> instead.

\*/

```
#undef NEED_SYS_TYPES_H
```

/\* For 80x86 machines, you need to define NEED\_FAR\_POINTERS,

\* unless you are using a large-data memory model or 80386 flat-memory mode.

\* On less brain-damaged CPUs this symbol must not be defined.

\* (Defining this symbol causes large data structures to be referenced through

\* "far" pointers and to be allocated with a special version of malloc.)

\*/

```
#undef NEED_FAR_POINTERS
```

/\* Define this if your linker needs global names to be unique in less

\* than the first 15 characters.

\*/

```
#undef NEED_SHORT_EXTERNAL_NAMES
```

/\* Although a real ANSI C compiler can deal perfectly well with pointers to

\* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI

\* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,

\* define INCOMPLETE\_TYPES\_BROKEN. This is not recommended unless you

\* actually get "missing structure definition" warnings or errors while

\* compiling the JPEG code.

\*/

```
#undef INCOMPLETE_TYPES_BROKEN
```

/\* Define "boolean" as unsigned char, not int, on Windows systems.

\*/

```
#ifdef _WIN32
```

```

#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

```

```
/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
```

```
#undef NEED_SIGNAL_CATCHER
```

```
/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
```

```
#undef DONT_USE_B_MODE
```

```
/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
```

```
#undef PROGRESS_REPORT
```

```
#endif /* JPEG_CJPEG_DJPEG */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jconfig.txt
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* jmemmac.c
```

```
/*
```

```
* Copyright (C) 1992-1997, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
/*
```

```
* jmemmac.c provides an Apple Macintosh implementation of the system-
```

```
* dependent portion of the JPEG memory manager.
```

```
/*
```

```
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
```

```
* JPEG_INTERNALS part of jconfig.h.
```

```
/*
```

```
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
```

```
* instead of malloc and free. It accurately determines the amount of
```

```
* memory available by using CompactMem. Notice that if left to its
```

```
* own devices, this code can chew up all available space in the
```

```
* application's zone, with the exception of the rather small "slop"
```

```
* factor computed in jpeg_mem_available(). The application can ensure
```

```
* that more space is left over by reducing max_memory_to_use.
```

```
/*
```

```
* Large images are swapped to disk using temporary files and System 7.0+'s
```

```
* temporary folder functionality.
```

```

*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
* FSpDelete  -> HDelete
* FSpGetFInfo -> HGetFInfo
* FSpCreate  -> HCreate
* FSpOpenDF  -> HOpen   *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gylid@in-touch.com).
*/

```

Found in path(s):

```

* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemmac.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
*/

```



\* This implementation is based on Arai, Agui, and Nakajima's algorithm for  
\* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in  
\* Japanese, but the algorithm is described in the Pennebaker & Mitchell  
\* JPEG textbook (see REFERENCES section in file README). The following code  
\* is based directly on figure 4-8 in P&M.  
\* While an 8-point DCT cannot be done in less than 11 multiplies, it is  
\* possible to arrange the computation so that many of the multiplies are  
\* simple scalings of the final outputs. These multiplies can then be  
\* folded into the multiplications or divisions by the JPEG quantization  
\* table entries. The AA&N method leaves only 5 multiplies and 29 adds  
\* to be done in the DCT itself.  
\* The primary disadvantage of this method is that with fixed-point math,  
\* accuracy is lost due to imprecise representation of the scaled  
\* quantization values. The smaller the quantization table entry, the less  
\* precise the scaled value, so this implementation does worse with high-  
\* quality-setting files than with low-quality ones.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctfst.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcpparam.c

\*

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* Modified 2003-2008 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains optional default-setting code for the JPEG compressor.

\* Applications do not have to use this file, but those that don't use it

\* must know a lot more about the innards of the JPEG code.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcpparam.c

No license file was found, but licenses were detected in source scan.

/\*

\* jfdctfst.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2003-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a fast, not so accurate integer implementation of the

\* forward DCT (Discrete Cosine Transform).  
\*  
\* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT  
\* on each column. Direct algorithms are also available, but they are  
\* much more complex and seem not to be any faster when reduced to code.  
\*  
\* This implementation is based on Arai, Agui, and Nakajima's algorithm for  
\* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in  
\* Japanese, but the algorithm is described in the Pennebaker & Mitchell  
\* JPEG textbook (see REFERENCES section in file README). The following code  
\* is based directly on figure 4-8 in P&M.  
\* While an 8-point DCT cannot be done in less than 11 multiplies, it is  
\* possible to arrange the computation so that many of the multiplies are  
\* simple scalings of the final outputs. These multiplies can then be  
\* folded into the multiplications or divisions by the JPEG quantization  
\* table entries. The AA&N method leaves only 5 multiplies and 29 adds  
\* to be done in the DCT itself.  
\* The primary disadvantage of this method is that with fixed-point math,  
\* accuracy is lost due to imprecise representation of the scaled  
\* quantization values. The smaller the quantization table entry, the less  
\* precise the scaled value, so this implementation does worse with high-  
\* quality-setting files than with low-quality ones.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jfdctfst.c

No license file was found, but licenses were detected in source scan.

/\*

\* jidctflt.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.

\* Modified 2010 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a floating-point implementation of the

\* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

\* must also perform dequantization of the input coefficients.

\*

\* This implementation should be more accurate than either of the integer

\* IDCT implementations. However, it may not give the same results on all

\* machines because of differences in roundoff behavior. Speed will depend

\* on the hardware's floating point capacity.

\*

\* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

\* on each row (or vice versa, but it's more convenient to emit a row at

\* a time). Direct algorithms are also available, but they are much more



- \* This file provides a generic implementation of the system-dependent
- \* portion of the JPEG memory manager. This implementation assumes that
- \* you must explicitly construct a name for each temp file.
- \* Also, the problem of determining the amount of memory available
- \* is shoved onto the user.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemname.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jdtrans.c

\*

\* Copyright (C) 1995-1997, Thomas G. Lane.

\* Modified 2000-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains library routines for transcoding decompression,

\* that is, reading raw DCT coefficient arrays from an input JPEG file.

\* The routines in jdapimin.c will also be needed by a transcoder.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdtrans.c  
No license file was found, but licenses were detected in source scan.

/\*

\* djpeg.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a command-line user interface for the JPEG decompressor.

\* It should work on any system with Unix- or MS-DOS-style command lines.

\*

\* Two different command line styles are permitted, depending on the

\* compile-time switch TWO\_FILE\_COMMANDLINE:

\* djpeg [options] inputfile outputfile

\* djpeg [options] [inputfile]

\* In the second style, output is always to standard output, which you'd

\* normally redirect to a file or pipe to some other program. Input is

\* either from a named file or from standard input (typically redirected).

\* The second style is convenient on Unix but is unhelpful on systems that

\* don't support pipes. Also, you MUST use the first style if your system

- \* doesn't do binary I/O to stdin/stdout.
- \* To simplify script writing, the "-outfile" switch is provided. The syntax
- \* djpeg [options] -outfile outputfile inputfile
- \* works regardless of which command line style is used.
- \*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/djpeg.c

No license file was found, but licenses were detected in source scan.

/\*

\* jpegtran.c

\*

\* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a command-line user interface for JPEG transcoding.

\* It is very similar to cjpeg.c, and partly to djpeg.c, but provides

\* lossless transcoding between different JPEG file formats. It also

\* provides some lossless and sort-of-lossless transformations of JPEG data.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegtran.c

No license file was found, but licenses were detected in source scan.

/\*

\* jdcolor.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains output colorspace conversion routines.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdcolor.c

No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software

=====

README for release 8c of 16-Jan-2011

=====

This distribution contains the eighth public release of the Independent JPEG

Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

## DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
ACKNOWLEDGMENTS Special thanks.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO           Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt    How to configure and install the IJG software.  
usage.txt     Usage instructions for cjpeg, djpeg, jpegtran,  
              rdjpgcom, and wrjpgcom.  
\*.1           Unix-style man pages for programs (same info as usage.txt).  
wizard.txt    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt   How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.txt Overview of the JPEG library's internal structure.  
filelist.txt   Road map of IJG files.  
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

## LEGAL ISSUES

=====

In plain English:

1. We don't promise that this software works. (But if you find any bugs,

please let us know!)

2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2011, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally,



that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG

sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in a contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of the document is Revision 3.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library

uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).  
The most recent released version can always be found there in  
directory "files". This particular version will be archived as  
<http://www.ijg.org/files/jpegsrc.v8c.tar.gz>, and in Windows-compatible  
"zip" archive format as <http://www.ijg.org/files/jpegsr8c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some  
general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>  
and other news.answers archive sites, including the official news.answers  
archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/).  
If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu)  
with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## ACKNOWLEDGMENTS

=====

Thank to Juergen Bruder for providing me with a copy of the common DCT  
algorithm article, only to find out that I had come to the same result  
in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the  
ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the  
Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to John Korejwa and Massimo Ballerini for inviting me to  
fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther  
Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel  
for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team  
at the Digital Images company in Halle for providing me with extra  
equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful

communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

## FILE FORMAT WARS

=====

The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR" which are incompatible with original DCT-based JPEG and which are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

We have little or no sympathy for the promotion of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

## TO DO

=====

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to [jpeg-info@uc.ag](mailto:jpeg-info@uc.ag).

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/README

No license file was found, but licenses were detected in source scan.

/\*

\* jmemmgr.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the JPEG system-independent memory management

\* routines. This code is usable across a wide variety of machines; most

\* of the system dependencies have been isolated in a separate file.

\* The major functions provided here are:

\* \* pool-based allocation and freeing of memory;

\* \* policy decisions about how to divide available memory among the  
\* virtual arrays;  
\* \* control logic for swapping virtual arrays between main memory and  
\* backing storage.  
\* The separate system-dependent file provides the actual backing-storage  
\* access code, and it contains the policy decision about how much total  
\* main memory to use.  
\* This file is system-dependent in the sense that some of its functions  
\* are unnecessary in some systems. For example, if there is enough virtual  
\* memory so that backing storage will never be used, much of the virtual  
\* array control logic could be removed. (Of course, if you have that much  
\* memory then you shouldn't care about a little bit of unused code...)  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemmgr.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jidctint.c

\*

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* Modification developed 2002-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a slow-but-accurate integer implementation of the  
\* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine  
\* must also perform dequantization of the input coefficients.

\*

\* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT  
\* on each row (or vice versa, but it's more convenient to emit a row at  
\* a time). Direct algorithms are also available, but they are much more  
\* complex and seem not to be any faster when reduced to code.

\*

\* This implementation is based on an algorithm described in

\* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

\* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

\* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

\* The primary algorithm described there uses 11 multiplies and 29 adds.

\* We use their alternate method with 12 multiplies and 32 adds.

\* The advantage of this method is that no data path contains more than one

\* multiplication; this allows a very simple and accurate implementation in

\* scaled fixed-point arithmetic, with a minimal number of shifts.

\*

\* We also provide IDCT routines with various output sample block sizes for

\* direct resolution reduction or enlargement and for direct resolving the

\* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

\* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.  
\*  
\* For N<8 we simply take the corresponding low-frequency coefficients of  
\* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block  
\* to yield the downscaled outputs.  
\* This can be seen as direct low-pass downsampling from the DCT domain  
\* point of view rather than the usual spatial domain point of view,  
\* yielding significant computational savings and results at least  
\* as good as common bilinear (averaging) spatial downsampling.  
\*  
\* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as  
\* lower frequencies and higher frequencies assumed to be zero.  
\* It turns out that the computational effort is similar to the 8x8 IDCT  
\* regarding the output size.  
\* Furthermore, the scaling and descaling is the same for all IDCT sizes.  
\*  
\* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases  
\* since there would be too many additional constants to pre-calculate.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctint.c  
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/\*

\* wrjpgcom.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a very simple stand-alone application that inserts

\* user-supplied text as a COM (comment) marker in a JFIF file.

\* This may be useful as an example of the minimum logic needed to parse

\* JPEG markers.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrjpgcom.c  
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/\*

\* jdarith.c

\*

\* Developed 1997-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains portable arithmetic entropy decoding routines for JPEG  
\* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).  
\*  
\* Both sequential and progressive modes are supported in this single module.  
\*  
\* Suspension is not currently supported in this module.  
\*/

Found in path(s):

\*/opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdarith.c

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/\*

\* jcapimin.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.

\* Modified 2003-2010 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface code for the compression half  
\* of the JPEG library. These are the "minimum" API routines that may be  
\* needed in either the normal full-compression case or the transcoding-only  
\* case.

\*

\* Most of the routines intended to be called directly by an application

\* are in this file or in jcapistd.c. But also see jcparam.c for

\* parameter-setup helper routines, jcomapi.c for routines shared by

\* compression and decompression, and jctrans.c for the transcoding case.

\*/

Found in path(s):

\*/opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcapimin.c

No license file was found, but licenses were detected in source scan.

/\*

\* jctrans.c

\*

\* Copyright (C) 1995-1998, Thomas G. Lane.

\* Modified 2000-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains library routines for transcoding compression,  
\* that is, writing raw DCT coefficient arrays to an output JPEG file.

\* The routines in jcapimin.c will also be needed by a transcoder.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jctrans.c

No license file was found, but licenses were detected in source scan.

/\*

\* transupp.h

\*

\* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains declarations for image transformation routines and  
\* other utility code used by the jpegtran sample application. These are  
\* NOT part of the core JPEG library. But we keep these routines separate  
\* from jpegtran.c to ease the task of maintaining jpegtran-like programs  
\* that have other user interfaces.

\*

\* NOTE: all the routines declared here have very specific requirements  
\* about when they are to be executed during the reading and writing of the  
\* source and destination files. See the comments in transupp.c, or see  
\* jpegtran.c for an example of correct usage.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/transupp.h

No license file was found, but licenses were detected in source scan.

/\*

\* jcapistd.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface code for the compression half  
\* of the JPEG library. These are the "standard" API routines that are  
\* used in the normal full-compression case. They are not used by a  
\* transcoding-only application. Note that if an application links in  
\* jpeg\_start\_compress, it will end up linking in the entire compressor.  
\* We thus must separate this file from jcapimin.c to avoid linking the  
\* whole compression library into a transcoder.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcapistd.c

No license file was found, but licenses were detected in source scan.

/\*



\* wrppm.c  
\*  
\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* Modified 2009 by Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains routines to write output images in PPM/PGM format.  
\* The extended 2-byte-per-sample raw PPM/PGM formats are supported.  
\* The PBMPLUS library is NOT required to compile this software  
\* (but it is highly useful as a set of PPM image manipulation programs).  
\*  
\* These routines may need modification for non-Unix environments or  
\* specialized applications. As they stand, they assume output to  
\* an ordinary stdio stream.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrppm.c

No license file was found, but licenses were detected in source scan.

#### IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2009, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

#### THE JPEG LIBRARY

=====

Include files:

jpeglib.h JPEG library's exported data and function declarations.

jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.

jpegconf.h Additional configuration declarations; need not be changed for a standard installation.

jpegerr.h Declares JPEG library's error and trace message codes.

`jinclue.h` Central include file used by all IJG .c files to reference system include files.  
`jpegint.h` JPEG library's internal data structures.  
`jdct.h` Private declarations for forward & reverse DCT subsystems.  
`jmemsys.h` Private declarations for memory management subsystem.  
`jversion.h` Version information.

Applications using the library should include `jpeglib.h` (which in turn includes `jconfig.h` and `jmorecfg.h`). Optionally, `jerror.h` may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (`cjpeg/djpeg/etc` do use `jinclue.h`, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need `jinclue.h`.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

`jpegim.c` Application program interface: core routines for compression.  
`jpegstd.c` Application program interface: standard compression.  
`jpegim.c` Application program interface: core routines for decompression.  
`jpegstd.c` Application program interface: standard decompression.  
`jpegapi.c` Application program interface routines common to compression and decompression.  
`jpegparam.c` Compression parameter setting helper routines.  
`jpegtrans.c` API and library routines for transcoding compression.  
`jpegdtrans.c` API and library routines for transcoding decompression.

Compression side of the library:

`jpeginit.c` Initialization: determines which other modules to use.  
`jpegmaster.c` Master control: setup and inter-pass sequencing logic.  
`jpegmainct.c` Main buffer controller (preprocessor => JPEG compressor).  
`jpegprept.c` Preprocessor buffer controller.  
`jpegcoeft.c` Buffer controller for DCT coefficient buffer.  
`jpegcolor.c` Color space conversion.  
`jpegsample.c` Downsampling.  
`jpegdctmgr.c` DCT manager (DCT implementation selection & control).  
`jpegfdctint.c` Forward DCT using slow-but-accurate integer method.  
`jpegfdctfst.c` Forward DCT using faster, less accurate integer method.  
`jpegfdctflt.c` Forward DCT using floating-point arithmetic.  
`jpegchuff.c` Huffman entropy coding.  
`jpegarith.c` Arithmetic entropy coding.  
`jpegmarker.c` JPEG marker writing.

jdastd.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.

jdinput.c Input controller: controls input processing modules.

jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).

jdcoefct.c Buffer controller for DCT coefficient buffer.

jdpostct.c Postprocessor buffer controller.

jdmarker.c JPEG marker reading.

jdhuft.c Huffman entropy decoding.

jdarith.c Arithmetic entropy decoding.

jdctmgr.c IDCT manager (IDCT implementation selection & control).

jdctint.c Inverse DCT using slow-but-accurate integer method.

jdctfst.c Inverse DCT using faster, less accurate integer method.

jdctflt.c Inverse DCT using floating-point arithmetic.

jdsample.c Upsampling.

jdcolor.c Color space conversion.

jdmerge.c Merged upsampling/color conversion (faster, lower quality).

jqant1.c One-pass color quantization using a fixed-spacing colormap.

jqant2.c Two-pass color quantization using a custom-generated colormap.

Also handles one-pass quantization to an externally given map.

jdatsrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.

jerror.c Standard error handling routines (application replaceable).

jmemmgr.c System-independent (more or less) memory management code.

jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.

jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().

jmemname.c Makes temporary files with program-generated file names.

jmemdos.c Custom implementation for MS-DOS (16-bit environment only):  
can use extended and expanded memory as well as temp files.

jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).

On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

## CJPEG/DJPEG/JPEGTRAN

=====

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.  
cderror.h Additional error and trace message codes for cjpeg et al.  
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.  
djpeg.c Main program for djpeg.  
jpegtran.c Main program for jpegtran.  
cdjpeg.c Utility routines used by all three programs.  
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.  
rdswitch.c Code to process some of cjpeg's more complex switches.  
Also used by jpegtran.  
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.  
rdgif.c GIF file input (now just a stub).  
rdppm.c PPM/PGM file input.  
rdrlc.c Utah RLE file input.  
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.  
wrgif.c GIF file output (a mere shadow of its former self).  
wrppm.c PPM/PGM file output.  
wrrlc.c Utah RLE file output.  
wrtarga.c Targa file output.

## RDJPGCOM/WRJPGCOM

=====

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.  
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use  
jconfig.h and jinclude.h, only to improve portability.

## ADDITIONAL FILES

=====

Documentation (see README for a guide to the documentation files):

README Master documentation file.  
\*.txt Other documentation files.  
\*.1 Documentation in Unix man page format.  
change.log Version-to-version change highlights.  
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.  
configure.ac Source file for use with Autoconf to generate configure.  
ltmain.sh Support scripts for configure (from GNU libtool).  
config.guess  
config.sub  
depcomp  
missing  
install-sh Install shell script for those Unix systems lacking one.  
Makefile.in Makefile input for configure.  
Makefile.am Source file for use with Automake to generate Makefile.in.  
ckconfig.c Program to generate jconfig.h on non-Unix systems.  
jconfig.txt Template for making jconfig.h by hand.  
mak\*.\* Sample makefiles for particular systems.  
jconfig.\* Sample jconfig.h for particular systems.  
libjpeg.map Script to generate shared library with versioned symbols.  
aclocal.m4 M4 macro definitions for use with Autoconf.  
ansi2knr.c De-ANSIfier for pre-ANSI C compilers (courtesy of  
L. Peter Deutsch and Aladdin Enterprises).

Test files (see install.txt for test procedure):

test\*.\* Source and comparison files for confidence test.  
These are binary image files, NOT text files.

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/filelist.txt

No license file was found, but licenses were detected in source scan.

```
/*
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2002-2008 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 * Digital Image Warping, George Wolberg, 1990.
 * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdsample.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdatasrc.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cdjpeg.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jccolor.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * transupp.c
 *
 * Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/transupp.c
No license file was found, but licenses were detected in source scan.
```

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2009, Thomas G. Lane, Guido Vollbeding.  
This file is part of the Independent JPEG Group's software.  
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

- A "component" means a color channel, e.g., Red or Luminance.
- A "sample" is a single component value (i.e., one number in the image data).
- A "coefficient" is a frequency coefficient (a DCT transform output number).
- A "block" is an 8x8 group of samples or coefficients.
- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

\*\*\* System features \*\*\*

The IJG distribution contains two parts:

- \* A subroutine library for JPEG compression and decompression.
- \* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless



JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

\*\*\* Portability issues \*\*\*

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from

"large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

\*\*\* System overview \*\*\*

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:

- \* Color space conversion (e.g., RGB to YCbCr).
- \* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- \* MCU assembly, DCT, quantization.
- \* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- \* Entropy decoding (sequential or progressive, Huffman or arithmetic).
- \* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- \* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
  - \* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
  - \* Optional color quantization (e.g., reduction to 256 colors).
  - \* Optional color precision reduction (e.g., 24-bit to 15-bit color).
- [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

\*\*\* Poor man's object-oriented programming \*\*\*

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the

code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular

set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

\*\*\* Overall control structure \*\*\*

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
      |           |           |
      ----- controller -----
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

\* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

\* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

\*\*\* Compression object structure \*\*\*

Here is a sketch of the logical structure of the JPEG compression library:

```

                                |-- Colospace conversion
|-- Preprocessing controller --|
|                                |-- Downsampling
Main controller --|
|                                |-- Forward DCT, quantize
|-- Coefficient controller --|
                                |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

\* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

\* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colospace conversion and downsampling. Note

that a unified conversion/downsampling module would probably replace this controller entirely.

- \* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
  
- \* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as  $V_{max}$  pixel rows of each component before downsampling, and  $V_k$  sample rows afterwards (remember  $V_k$  differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).
  
- \* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.
  
- \* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)
  
- \* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

- \* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.
  
- \* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

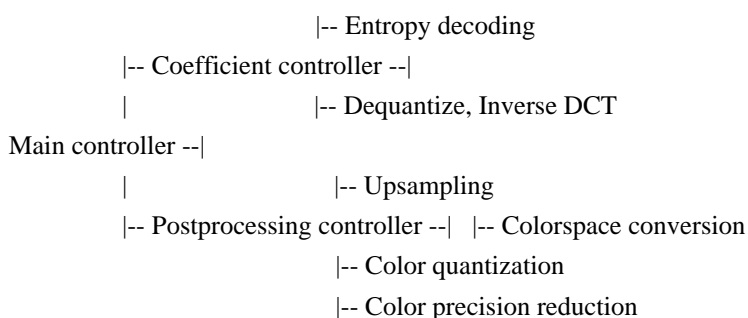
- \* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream; for other behaviors, the surrounding application may provide its own destination manager.
- \* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
- \* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.
- \* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

\*\*\* Decompression object structure \*\*\*

Here is a sketch of the logical structure of the JPEG decompression library:



As before, this diagram also represents typical control flow. The objects shown are:

- \* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this



is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

- \* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.
- \* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.
- \* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.
- \* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.
- \* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.
- \* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.
- \* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will

always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

\* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

\* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.

\* Marker reading: decodes JPEG markers (except for RSTn).

\* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a `stdio` stream; for other behaviors, the surrounding application may provide its own source manager.

\* Memory manager: same as for compression library.

\* Error handler: same as for compression library.

\* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

\*\*\* Decompression input and output separation \*\*\*

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

\*\*\* Data formats \*\*\*

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be  $\geq 0$ . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- \* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- \* Indexing doesn't require multiplication; this is a performance win on many machines.
- \* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- \* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is

represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)\*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

\*\*\* Suspendable processing \*\*\*

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it

would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *\*not\** cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

### \*\*\* Memory manager services \*\*\*

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever `malloc/free` are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- \* `JPOOL_PERMANENT` lasts until master record is destroyed
- \* `JPOOL_IMAGE` lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, `JPOOL_PASS` = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
  - \* On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
  - \* Pool allocation heuristics may differ for large and small objects.Note that individual "large" objects cannot exceed the size allowed by type `size_t`, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's *raison d'être* is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_XXX` routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.



3. `realize_virt_arrays` will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoefct.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

\*\*\* Memory manager internal structure \*\*\*

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (`jmemmgr.c`) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

`jpeg_mem_init`, `jpeg_mem_term` system-dependent initialization/shutdown

`jpeg_get_small`, `jpeg_free_small` interface to `malloc` and `free` library routines (or their equivalents)

`jpeg_get_large`, `jpeg_free_large` interface to FAR `malloc/free` in MSDOS machines; else usually the same as  
`jpeg_get_small/jpeg_free_small`

jpeg\_mem\_available estimate available memory

jpeg\_open\_backing\_store create a backing-store object

read\_backing\_store, manipulate a backing-store object

write\_backing\_store,

close\_backing\_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg\_open\_backing\_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self\_destruct (typically via jpeg\_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

\*\*\* Implications of DNL marker \*\*\*

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a

mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

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\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/structure.txt

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/\*

\* rdtarga.c

\*

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\*

\* This file contains routines to read input images in Targa format.

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume input from

\* an ordinary stdio stream. They further assume that reading begins  
\* at the start of the file; start\_input may need work if the  
\* user interface has already read some data (e.g., to determine that  
\* the file is indeed Targa format).  
\*  
\* Based on code contributed by Lee Daniel Crocker.  
\*/

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\*

\* This file contains routines to write output images in Microsoft "BMP"

\* format (MS Windows 3.x and OS/2 1.x flavors).

\* Either 8-bit colormapped or 24-bit full-color format can be written.

\* No compression is supported.

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*

\* This code contributed by James Arthur Boucher.

\*/

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\* jmemsys.h

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\*

\* This include file defines the interface between the system-independent and system-dependent portions of the JPEG memory manager. No other modules need include it. (The system-independent portion is jmemmgr.c; there are several different versions of the system-dependent portion.)

\*

\* This file works as-is for the system-dependent memory managers supplied in the IJG distribution. You may need to modify it if you write a custom memory manager. If system-dependent changes are needed in this file, the best method is to #ifdef them based on a configuration symbol supplied in jconfig.h, as we have done with USE\_MSDOS\_MEMMGR and USE\_MAC\_MEMMGR.

\*/

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\* rdgif.c

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\*

\* This file contains routines to read input images in GIF format.

\*  
\*\*\*\*\*  
\* NOTE: to avoid entanglements with Unisys' patent on LZW compression, \*  
\* the ability to read GIF files has been removed from the IJG distribution. \*  
\* Sorry about that. \*  
\*\*\*\*\*

\*  
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/\*  
\* jdmaster.c  
\*  
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\* Modified 2002-2009 by Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
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\*  
\* This file contains master control logic for the JPEG decompressor.  
\* These routines are concerned with selecting the modules to be executed  
\* and with determining the number of passes and the work to be done in each  
\* pass.  
\*/

Found in path(s):  
\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmaster.c  
No license file was found, but licenses were detected in source scan.

#### INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2010, Thomas G. Lane, Guido Vollbeding.  
This file is part of the Independent JPEG Group's software.  
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.

Try doing

```
./configure
```

```
make
```

```
make test
```

If that doesn't complain, do

```
make install
```

(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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## BEFORE YOU START

=====

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

## CONFIGURING THE SOFTWARE

=====

To configure the IJG code for your system, you need to create two files:

- \* `jconfig.h`: contains values for system-dependent `#define` symbols.
- \* `Makefile`: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a `Makefile`. `jconfig.h` is needed in any environment.)

We provide three different ways to generate these files:

- \* On a Unix system, you can just run the "configure" script.
- \* We provide sample `jconfig` files and `makefiles` for popular machines; if your machine matches one of the samples, just copy the right sample files to `jconfig.h` and `Makefile`.
- \* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

-----

If you are on a Unix machine, you can just type

```
./configure
```

and let the `configure` script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent `csh` from trying to execute `configure` itself.

Expect `configure` to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

`Configure` was created with GNU `Autoconf` and it follows the usual conventions for GNU `configure` scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to `configure`:

- \* `Configure` will build both static and shared libraries, if possible.

If you want to build `libjpeg` only as a static library, say

```
./configure --disable-shared
```

If you want to build `libjpeg` only as a shared library, say

```
./configure --disable-static
```

`Configure` uses GNU `libtool` to take care of system-dependent shared library building methods.

- \* `Configure` will use `gcc` (GNU C compiler) if it's available, otherwise `cc`.

To force a particular compiler to be selected, use the `CC` option, for example

```
./configure CC='cc'
```

The same method can be used to include any unusual compiler switches.

For example, on HP-UX you probably want to say



```
./configure CC='cc -Aa'
```

to get HP's compiler to run in ANSI mode.

\* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc. You can override this by saying, for example,

```
./configure CFLAGS='-O2'
```

if you want to compile without debugging support.

\* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

\* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

-----

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C  
makefile.sas jconfig.sas Amiga, SAS C  
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior  
mak\*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C  
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C  
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)  
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)  
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C  
makefile.vc jconfig.vc Windows NT/95, MS Visual C++  
make\*.vc6 jconfig.vc Windows NT/95, MS Visual C++ 6  
make\*.v10 jconfig.vc Windows NT/95, MS Visual C++ 2010 (v10)  
makefile.mms jconfig.vms Digital VMS, with MMS software  
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see

the appropriate system-specific hints section near the end of this file.

## Configuring the software by hand

-----

First, generate a `jconfig.h` file. If you are moderately familiar with C, the comments in `jconfig.txt` should be enough information to do this; just copy `jconfig.txt` to `jconfig.h` and edit it appropriately. Otherwise, you may prefer to use the `ckconfig.c` program. You will need to compile and execute `ckconfig.c` by hand --- we hope you know at least enough to do that. `ckconfig.c` may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing `ckconfig.c` according to the directions given in `ckconfig.c`. Once you get it to run, it will write a suitable `jconfig.h` file, and will also print out some advice about which makefile to use.

You may also want to look at the canned `jconfig` files, if there is one for a system similar to yours.

Second, select a makefile and copy it to `Makefile` (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

`makefile.ansi`: if your C compiler supports function prototypes

`makefile.unix`: if not.

(You have function prototypes if `ckconfig.c` put `"#define HAVE_PROTOTYPES"` in `jconfig.h`.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected `Makefile` and adjust options as needed. In particular you may want to change the `CC` and `CFLAGS` definitions. For instance, if you are using `GCC`, set `CC=gcc`. If you had to use any compiler switches to get `ckconfig.c` to work, make sure the same switches are in `CFLAGS`.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files `cjpeg`, `djpeg`, `jpegtran`, `rdjpgcom`, and `wrjpgcom`. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file `libjpeg` first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; `makefile.vms` is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

## Command line style

-----

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You **MUST** use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard `fdopen()` library routine or a Microsoft-compatible `setmode()` routine, you can safely use the Unix command line style, by defining `USE_FDOPEN` or `USE_SETMODE` respectively.)

To use the two-file style, make `jconfig.h` say `#define TWO_FILE_COMMANDLINE`.

## Selecting a memory manager

-----

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

\* `jmemansi.c` This version uses the ANSI-standard library routine `tmpfile()`, which not all non-ANSI systems have. On some systems `tmpfile()` may put the temporary file in a non-optimal location; if you don't like what it does, use `jmemname.c`.

\* `jmemname.c` This version creates named temporary files. For anything except a Unix machine, you'll need to configure the `select_file_name()` routine appropriately; see the comments near the head of `jmemname.c`. If you use this version, define `NEED_SIGNAL_CATCHER` in `jconfig.h` to make sure the temp files are removed if the program is aborted.

\* `jmemnobs.c` (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

\* `jmemdos.c` This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info.

IMPORTANT: if you use this, define `USE_MSDOS_MEMMGR` in `jconfig.h`, and include the assembly file `jmemdosa.asm` in the programs. The supplied makefiles and `jconfig` files for 16-bit MS-DOS compilers already do both.

\* `jmemmac.c` Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the `SYSDEPMEM` variable in your makefile to equal the corresponding object file name (for example, `jmemansi.o` or `jmemansi.obj` for `jmemansi.c`).

If you have plenty of (real or virtual) main memory, just use `jmemnobs.c`.

"Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.

If yours doesn't, try `jmemansi.c` first. If that doesn't compile, you'll have to use `jmemname.c`; be sure to adjust `select_file_name()` for local conditions. You may also need to change `unlink()` to `remove()` in `close_backing_store()`.

Except with `jmemnobs.c` or `jmemmac.c`, you need to adjust the `DEFAULT_MAX_MEM` setting to a reasonable value for your system (either by adding a `#define` for `DEFAULT_MAX_MEM` to `jconfig.h`, or by adding a `-D` switch to the Makefile).

This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for `cjpeg` or `djpeg` are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set `DEFAULT_MAX_MEM` to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by `jmemdos.c`.)

## BUILDING THE SOFTWARE

=====

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting `#define INCOMPLETE_TYPES_BROKEN` in `jconfig.h`.

If you have trouble with missing system include files or inclusion of the wrong ones, read `jinclue.h`. This shouldn't happen if you used `configure` or `ckconfig.c` to set up `jconfig.h`.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a `getenv()` library routine, define `NO_GETENV`.

Also see the system-specific hints, below.

## TESTING THE SOFTWARE

=====

As a quick test of functionality we've included a small sample image in several forms:

`testorig.jpg` Starting point for the djpeg tests.

`testing.ppm` The output of `djpeg testorig.jpg`

`testing.bmp` The output of `djpeg -bmp -colors 256 testorig.jpg`

`testing.jpg` The output of `cjpeg testing.ppm`

`testprog.jpg` Progressive-mode equivalent of `testorig.jpg`.

`testingp.jpg` The output of `cjpeg -progressive -optimize testing.ppm`

(The first- and second-generation `.jpg` files aren't identical since JPEG is lossy.) If you can generate duplicates of the `testing*` files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run `djpeg` and `cjpeg` by hand and compare the output files to `testing*` with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX\_ALLOC\_CHUNK is wrong, please fix", then you need to reduce `MAX_ALLOC_CHUNK` to a value that fits in type `size_t`. Try adding `#define MAX_ALLOC_CHUNK 65520L` to `jconfig.h`. A less likely configuration error is "ALIGN\_TYPE is wrong, please fix": defining `ALIGN_TYPE` as `long` should take care of that one.

If the `cjpeg` test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define `RIGHT_SHIFT_IS_UNSIGNED`. Go back to the configuration step and run `ckconfig.c`. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through `stdin/stdout` actually works. You should get the same results from `"djpeg <testorig.jpg >out.ppm"`

as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE\_SETMODE or USE\_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT\_MAX\_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

## INSTALLING THE SOFTWARE

=====

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say  
make install  
to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying  
make -n install  
to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files  
jpeglib.h jerror.h jconfig.h jmorecfg.h  
into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say  
make install-lib

## OPTIONAL STUFF

=====

Progress monitor:

If you like, you can `#define PROGRESS_REPORT` (in `jconfig.h`) to enable display of percent-done progress reports. The routine provided in `cdjpeg.c` merely prints percentages to `stderr`, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. `#define RLE_SUPPORTED` in `jconfig.h`.
2. Add a `-I` option to `CFLAGS` in the Makefile for the directory containing the URT `.h` files (typically the "include" subdirectory of the URT distribution).
3. Add `-L... -lrle` to `LDLIBS` in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 12-bit-deep pixel data:

The JPEG standard allows either 8-bit or 12-bit data precision. (For color, this means 8 or 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 12-bit operation.

To do so:

1. In `jmorecfg.h`, define `BITS_IN_JSAMPLE` as 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle 12-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 12-bit support does not work on 16-bit-int machines.

Note that a 12-bit version will not read 8-bit JPEG files, nor vice versa; so you'll want to keep around a regular 8-bit compilation as well. (Run-time selection of data depth, to allow a single copy that does both, is possible but would probably slow things down considerably; it's very low on our to-do list.)

The PPM reader (`rdppm.c`) can read 12-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a

maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS\_IN\_JSAMPLE setting; incoming data is automatically rescaled to either maxval=255 or maxval=4095 as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval 4095, when compiled with BITS\_IN\_JSAMPLE=12. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM\_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note that a 12-bit version of cjpeg always runs in "-optimize" mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx\_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT\_DEFAULT or JDCT\_FASTEST to a supported method, by adding a #define in jconfig.h.)

## OPTIMIZATION

=====

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step.

Repeat the self-test after any optimization to make sure that you haven't broken anything.



The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT\_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT\_DEFAULT JDCT\_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT\_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@uc.ag so we can mention them in future releases. Be sure to specify your machine and compiler version.

## HINTS FOR SPECIFIC SYSTEMS

=====

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@uc.ag. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)

After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

```
CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o
```

Also add a new line '.c.o: \$(cc) \$< \$(cflags) -c -o \$@'. Remove the lines '\$(RM) libjpeg.o' and '\$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO\_FILE\_COMMANDLINE and CHAR\_IS\_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library

filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT\_MAX\_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT\_MAX\_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlb.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT\_FLOAT\_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlb.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading "#pragma novector" just before the loop

```
for (i = 1; i <= (int) htbl->bits[I]; i++)
    huffsize[p++] = (char) l;
```

in fix\_huff\_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdchuff.c). [This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler,

you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or `-Ae` if you prefer). If configuring by hand, use `makefile.ansi` and add `"-Aa"` to the `CFLAGS` line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use `makefile.unix` (and do NOT add `-Aa`); or just run `configure` without the `CC` option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use `makefile.unix`, or run `configure` without the `CC` option.

Macintosh, generic comments:

The supplied user-interface files (`cjpeg.c`, `djpeg.c`, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the `ccommand()` library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of `cjpeg/djpeg` you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.

The CodeWarrior source code is available from <http://www.pobox.com/~jsam>.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C.

Jim's code is available from the Info-Mac archives, at [sumex-aim.stanford.edu](http://sumex-aim.stanford.edu) or mirrors thereof; see file `/info-mac/dev/src/jpeg-convert-c.hqx`.

`jmemmac.c` is the recommended memory manager back end for Macintosh. It uses `NewPtr/DisposePtr` instead of `malloc/free`, and has a Mac-specific implementation of `jpeg_mem_available()`. It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in `jmemmac.c` if you need to run it on System 6.) NOTE that `USE_MAC_MEMMGR` must be defined in `jconfig.h` to use `jmemmac.c`.

You can also use `jmemnobs.c`, if you don't care about handling images larger than available memory. If you use any memory manager back end other than `jmemmac.c`, we recommend replacing `"malloc"` and `"free"` by `"NewPtr"` and `"DisposePtr"`, because Mac C libraries often have peculiar implementations of `malloc/free`. (For instance, `free()` may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because `jmemmgr.c`

already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining `USE_CCOMMAND`. You'll also need to define `TWO_FILE_COMMANDLINE` to avoid `stdin/stdout`. This means that when using the `cjpeg/djpeg` programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps `USE_FDOPEN` or `USE_SETMODE` would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

The supplied configuration file `jconfig.mac` can be used for your `jconfig.h`; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script `makeproj.mac` to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define `USE_CCOMMAND` in `jconfig.h` so that the `ccommand()` routine is called. You must also define `TWO_FILE_COMMANDLINE` because `stdin/stdout` don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

`jconfig.mac` should work as a `jconfig.h` configuration file for Think C, but the `makeproj.mac` AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED\_FAR\_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED\_FAR\_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE\_MSDOS\_MEMMGR and must set MAX\_ALLOC\_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX\_ALLOC\_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX\_ALLOC\_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX\_COM\_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or

setmode(), you can use one-file style if you like. To do this, define USE\_SETMODE or USE\_FDOPEN so that stdin/stdout will be set to binary mode. (USE\_SETMODE seems to work with more DOS compilers than USE\_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED\_FAR\_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#"' is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO\_FILE\_COMMANDLINE. jconfig.bcc already includes #define USE\_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO\_FILE\_COMMANDLINE. jconfig.mc6 already includes #define USE\_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "\$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile".

Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with `djpeg -debug -debug`, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove `-O` from `CFLAGS`). 6.00A is better, but it still generates bad code if you enable loop optimizations (`-Ol` or `-Ox`).

MS C 8.0 crashes when compiling `jquant1.c` with optimization switch `/Oo` ... which is on by default. To work around this bug, compile that one file with `/Oo-`.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define `typedef boolean` as "unsigned char". The IJG code also defines `typedef boolean`, but we make it "int" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of `boolean` while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for `boolean`. To do that, add something like this to your `jconfig.h` file:

```
/* Define "boolean" as unsigned char, not int, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
```

(This is already in `jconfig.vc`, by the way.)

`winddef.h` contains the declarations

```
#define far
#define FAR far
```

Since `jmorecfg.h` tries to define `FAR` as empty, you may get a compiler warning if you include both `jpeglib.h` and `winddef.h` (which `windows.h` includes). To suppress the warning, you can put `"#ifndef FAR"/"#endif"` around the line `"#define FAR"` in `jmorecfg.h`.

(Something like this is already in `jmorecfg.h`, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module `jerror.c`, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on `stderr`;



2. in event of a fatal error, it exits by calling `exit()`.

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "%s\n", buffer);
```

(in `output_message` in `jerror.c`) with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in `jerror.c`; just define `USE_WINDOWS_MESSAGEBOX` in `jconfig.h` to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the `setjmp/longjmp` technique discussed in `libjpeg.txt` and illustrated in `example.c`. (NOTE: some older Windows C compilers provide versions of `setjmp/longjmp` that don't actually work under Windows. You may need to use the Windows system functions `Catch` and `Throw` instead.)

The recommended memory manager under Windows is `jmemnobs.c`; in other words, let Windows do any virtual memory management needed. You should NOT use `jmemdos.c` nor `jmemdosa.asm` under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into `jconfig.h` to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) `jmemnobs.c` works without modification in large or flat memory models, but to use medium model, you need to modify its `jpeg_get_large` and `jpeg_free_large` routines to allocate far memory. In any case, you might like to replace its calls to `malloc` and `free` with direct calls on Windows memory allocation functions.

You may also want to modify `jdatasrc.c` and `jdatadst.c` to use Windows file operations rather than `fread/fwrite`. This is only necessary if your C compiler doesn't provide a competent implementation of C `stdio` functions.

You might want to tweak the `RGB_xxx` macros in `jmorecfg.h` so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications `cjpeg/djpeg`, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So `jdatasrc.c` and `jdatadst.c` don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make `jdatasrc.c/jdatadst.c` part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros `GLOBAL()` and `EXTERN()` to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify `METHODDEF()` and `JMETHOD()` to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in `jmorecfg.h`. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loads _export
#define EXTERN(type) extern type _far _pascal _loads
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \
    type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the `GLOBAL` routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided `jconfig.bcc` should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define `NEED_FAR_POINTERS` and `MAX_ALLOC_CHUNK`). Beware that `makefile.bcc` will need alteration if you want to use it for Windows --- in particular, you should use `jmemnobs.c` not `jmemdos.c` under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile `jdmerge.c` in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable `range_limit` in `h2v1_merged_upsample()`, at the head

of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine h2v2\_merged\_upsample doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

```
-Ot -Og
-Ot -Op
-Ot -Om
```

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the \*.c files to \*.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT\_USE\_EXTERN\_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in DevStudio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line

```
NMAKE /f makefile.vc setup-vc6
```

This will move jconfig.vc to jconfig.h and makefiles to project files.

(Note that the renaming is critical!)

2. Open the workspace file jpeg.dsw, build the library project.  
(If you are using DevStudio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line  
NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Microsoft Visual C++ 2010 Developer Studio (v10):

We include makefiles that should work as project files in Visual Studio 2010 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line  
NMAKE /f makefile.vc setup-v10  
This will move jconfig.vc to jconfig.h and makefiles to project files.  
(Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.  
(If you are using Visual Studio more recent than 2010 (v10), you'll probably get a message saying that the project files are being updated.)
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line  
NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Note:

There seems to be an optimization bug in the compiler which causes the self-test to fail with the color quantization option.

We have disabled optimization for the file jquant2.c in the library project file which causes the self-test to pass properly.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.  
If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT\_DEFAULT JDCT\_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream\_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/install.txt
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* jdcoefct.c
```

```
*
```

```
* Copyright (C) 1994-1997, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains the coefficient buffer controller for decompression.
```

```
* This controller is the top level of the JPEG decompressor proper.
```

```
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
```

```
*
```

```
* In buffered-image mode, this controller is the interface between
```

```
* input-oriented processing and output-oriented processing.
```

```
* Also, the input side (only) is used when reading a file for transcoding.
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdcoefct.c

No license file was found, but licenses were detected in source scan.

/\*

\* jcdctmgr.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the forward-DCT management logic.

\* This code selects a particular DCT implementation to be used,

\* and it performs related housekeeping chores including coefficient

\* quantization.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcdctmgr.c

No license file was found, but licenses were detected in source scan.

/\*

\* jmemansi.c

\*

\* Copyright (C) 1992-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file provides a simple generic implementation of the system-

\* dependent portion of the JPEG memory manager. This implementation

\* assumes that you have the ANSI-standard library routine tmpfile().

\* Also, the problem of determining the amount of memory available

\* is shoved onto the user.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemansi.c

No license file was found, but licenses were detected in source scan.

/\*

\* cdjpeg.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains common support routines used by the IJG application

\* programs (cjpeg, djpeg, jpegtran).

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cdjpeg.c

No license file was found, but licenses were detected in source scan.

/\*

\* jchuff.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 2006-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains Huffman entropy encoding routines.

\* Both sequential and progressive modes are supported in this single module.

\*

\* Much of the complexity here has to do with supporting output suspension.

\* If the data destination module demands suspension, we want to be able to

\* back up to the start of the current MCU. To do this, we copy state

\* variables into local working storage, and update them back to the

\* permanent JPEG objects only upon successful completion of an MCU.

\*

\* We do not support output suspension for the progressive JPEG mode, since

\* the library currently does not allow multiple-scan files to be written

\* with output suspension.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jchuff.c

No license file was found, but licenses were detected in source scan.

/\*

\* jerror.c

\*

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains simple error-reporting and trace-message routines.

\* These are suitable for Unix-like systems and others where writing to

\* stderr is the right thing to do. Many applications will want to replace

\* some or all of these routines.

\*

\* If you define USE\_WINDOWS\_MESSAGEBOX in jconfig.h or in the makefile,

\* you get a Windows-specific hack to display error messages in a dialog box.

\* It ain't much, but it beats dropping error messages into the bit bucket,

\* which is what happens to output to stderr under most Windows C compilers.

\*

\* These routines are used by both the compression and decompression code.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jerror.c

No license file was found, but licenses were detected in source scan.

## USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2010, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

## OVERVIEW

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### Functions provided by the library

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The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions \*not\* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- \* Hierarchical storage
- \* Lossless JPEG
- \* DNL marker
- \* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

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The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
    jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
    jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object
```

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

## BASIC LIBRARY USAGE

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Data formats

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Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed `jmorecfg.h`. (You can also change the RGB pixel layout, say to B,G,R order, by modifying `jmorecfg.h`. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by `BITS_IN_JSAMPLE` (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with `BITS_IN_JSAMPLE = 12`. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details,

except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

## Compression details

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Here we revisit the JPEG compression outline given in the overview.

### 1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg\_compress\_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg\_error\_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg\_error\_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg\_create\_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg\_create\_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler;

that's why the error handler must be initialized first.

## 2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg\_start\_compress() and jpeg\_finish\_compress().

## 3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

```
image_width  Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image
```

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input\_components is 3 or 1 accordingly. (See "Special

color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults()`; then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. `jpeg_start_compress(...)`;

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)

```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you **WILL** use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "`while (cinfo.next_scanline < cinfo.image_height)`".

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- \* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- \* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal `stdio` destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of `next_scanline`.



## 6. jpeg\_finish\_compress(...);

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is **ESSENTIAL** to ensure that the last bufferload of data is written to the data destination.

`jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

## 7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

## 8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

\* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

\* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

## Decompression details

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Here we revisit the JPEG decompression outline given in the overview.

### 1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "`struct jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg\_read\_header() and jpeg\_finish\_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg\_read\_header() to jpeg\_finish\_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg\_read\_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- \* A suspending data source is used --- in that case `jpeg_read_header()` may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
- \* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

#### 4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

#### 5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

```
output_width  image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap      the selected colormap, if any
actual_number_of_colors number of entries in colormap
```

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as `djpeg` does), then the manager's protocol requires that you request large buffers \*before\* calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)

```
jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `djpeg`.

The library maintains a count of the number of scanlines returned so far in the `output_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.output_scanline < cinfo.output_height)"`. (Note that the test should NOT be against `image_height`, unless you never use scaling. The `image_height` field is the height of the original unscaled image.) The return value always equals the change in the value of `output_scanline`.

If you don't use a suspending data source, it is safe to assume that `jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

#### 7. `jpeg_finish_decompress(...)`;

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the `stdio` source manager, don't forget to close the source `stdio` stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

#### 8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

## 9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

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Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jpeglib.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jpeglib.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *\*not\** guaranteed binary compatible across versions; we only try to ensure source-code compatibility.

(In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use `jmemnobs.c` (or another memory manager of your own devising). More info about the minimum system library requirements may be found in `jinclude.h`.

## ADVANCED FEATURES

=====

### Compression parameter selection

-----

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults(j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace(j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See



"Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

`int jpeg_quality_scaling (int quality)`

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)`

Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,`

```
const unsigned int *basic_table,  
int scale_factor, boolean force_baseline)
```

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is TRUE).

CAUTION: prior to library version 6a, `jpeg_add_quant_table` expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like `"#if JPEG_LIB_VERSION >= 61"` is the right test.

```
jpeg_simple_progression (j_compress_ptr cinfo)
```

Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

```
int block_size
```

Set DCT block size. All N from 1 to 16 are possible.

Default is 8 (baseline format).

Larger values produce higher compression, smaller values produce higher quality.

An exact DCT stage is possible with 1 or 2.

With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.

Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the `block_size` parameter for compression works with version 8c and later.

```
J_DCT_METHOD dct_method
```

Selects the algorithm used for the DCT step. Choices are:

JDCT\_ISLOW: slow but accurate integer algorithm

JDCT\_IFAST: faster, less accurate integer method

JDCT\_FLOAT: floating-point method

JDCT\_DEFAULT: default method (normally JDCT\_ISLOW)

JDCT\_FASTEST: fastest method (normally JDCT\_IFAST)

The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT\_DEFAULT and

JDCT\_FASTEST are macros configurable by each installation.

unsigned int scale\_num, scale\_denom

Scale the image by the fraction scale\_num/scale\_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block\_size parameter above).

(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J\_COLOR\_SPACE jpeg\_color\_space

int num\_components

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg\_set\_color\_space() if you want to change these.

boolean optimize\_coding

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart\_interval

int restart\_in\_rows

To emit restart markers in the JPEG file, set one of these nonzero. Set restart\_interval to specify the exact interval in MCU blocks. Set restart\_in\_rows to specify the interval in MCU rows. (If restart\_in\_rows is not 0, then restart\_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg\_scan\_info \* scan\_info

int num\_scans

By default, scan\_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan\_info points to an array of scan definition records of length num\_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg\_simple\_progression creates

a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do\_fancy\_downsampling

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do\_fancy\_upsampling value in decompression.

int smoothing\_factor

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write\_JFIF\_header

If TRUE, a JFIF APP0 marker is emitted. jpeg\_set\_defaults() and jpeg\_set\_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF\_major\_version

UINT8 JFIF\_minor\_version

The version number to be written into the JFIF marker.

jpeg\_set\_defaults() initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density\_unit

UINT16 X\_density

UINT16 Y\_density

The resolution information to be written into the JFIF marker; not used otherwise. density\_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write\_Adobe\_marker

If TRUE, an Adobe APP14 marker is emitted. jpeg\_set\_defaults() and jpeg\_set\_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write\_JFIF\_header and write\_Adobe\_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT\_TBL \* quant\_tbl\_ptrs[NUM\_QUANT\_TBLS]

Pointers to coefficient quantization tables, one per table slot,

or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; `jpeg_add_quant_table()` is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```
int q_scale_factor[NUM_QUANT_TBLS]
```

Linear quantization scaling factors (percentage, initialized 100) for use with `jpeg_default_qtables()`.

See `rdswitch.c` and `cjpeg.c` for an example of usage.

Note that the `q_scale_factor[]` fields are the "linear" scales, so you have to convert from user-defined ratings via `jpeg_quality_scaling()`.

Here is an example code which corresponds to `cjpeg -quality 90,70`:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

```
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
```

```
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
```

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by `jpeg_set_defaults()`. If you need to allocate more table structures, `jpeg_alloc_huff_table()` may be used.

Note that optimal Huffman tables can be computed for an image by setting `optimize_coding`, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg\_width Actual dimensions of output image.

JDIMENSION jpeg\_height

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, \*not\* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

int component\_id

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h\_samp\_factor

int v\_samp\_factor

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant\_tbl\_no

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc\_tbl\_no

int ac\_tbl\_no

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component\_index

Must equal the component's index in `comp_info[]`. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

-----

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable

for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by `jpeg_read_header()` and may be useful to the application in choosing decompression parameters:

JDIMENSION `image_width` Width and height of image  
JDIMENSION `image_height`  
int `num_components` Number of color components  
J\_COLOR\_SPACE `jpeg_color_space` Colorspace of image  
boolean `saw_JFIF_marker` TRUE if a JFIF APP0 marker was seen  
UINT8 `JFIF_major_version` Version information from JFIF marker  
UINT8 `JFIF_minor_version`  
UINT8 `density_unit` Resolution data from JFIF marker  
UINT16 `X_density`  
UINT16 `Y_density`  
boolean `saw_Adobe_marker` TRUE if an Adobe APP14 marker was seen  
UINT8 `Adobe_transform` Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J\_COLOR\_SPACE `out_color_space`  
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

unsigned int `scale_num`, `scale_denom`  
Scale the image by the fraction `scale_num/scale_denom`. Currently, the supported scaling ratios are  $M/N$  with all  $M$  from 1 to 16, where  $N$  is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by `jpeg_read_header()` with the source DCT size. For baseline JPEG

this is 8/8. If you change only the `scale_num` value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

`boolean quantize_colors`

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

`int desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).

Default 256. Ignored when the application supplies its own color map.

`boolean two_pass_quantize`

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

`J_DITHER_MODE dither_mode`

Selects color dithering method. Supported values are:

`JDITHER_NONE` no dithering: fast, very low quality

`JDITHER_ORDERED` ordered dither: moderate speed and quality

`JDITHER_FS` Floyd-Steinberg dither: slow, high quality

Default is `JDITHER_FS`. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is TRUE or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is TRUE, the target color map is described by the next two fields. `colormap` is set to NULL by `jpeg_read_header()`. The application can supply a color map by setting `colormap` non-NULL and setting `actual_number_of_colors` to the map size. Otherwise, `jpeg_start_decompress()` selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

`JSAMPARRAY colormap`

The color map, represented as a 2-D pixel array of `out_color_components` rows and `actual_number_of_colors` columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by `jpeg_finish_decompress()`.

Copy the colormap somewhere else first, if you want to save it.



int actual\_number\_of\_colors

The number of colors in the color map.

Additional decompression parameters that the application may set include:

J\_DCT\_METHOD dct\_method

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do\_fancy\_upsampling

If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate upsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do\_fancy\_downsampling value in compression.

boolean do\_block\_smoothing

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.

In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable\_1pass\_quant

boolean enable\_external\_quant

boolean enable\_2pass\_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg\_start\_decompress(). You can also call jpeg\_calc\_output\_dimensions() to obtain the values that will result from the current parameter settings.

This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers \*before\* jpeg\_start\_decompress().

JDIMENSION output\_width Actual dimensions of output image.

JDIMENSION output\_height

int out\_color\_components Number of color components in out\_color\_space.

int output\_components Number of color components returned.

int rec\_outbuf\_height Recommended height of scanline buffer.

When quantizing colors, `output_components` is 1, indicating a single color map index per pixel. Otherwise it equals `out_color_components`. The output arrays are required to be `output_width * output_components` JSAMPLEs wide.

`rec_outbuf_height` is the recommended minimum height (in scanlines) of the buffer passed to `jpeg_read_scanlines()`. If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, `rec_outbuf_height` is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring `rec_outbuf_height` so as to avoid data copying. (An output buffer larger than `rec_outbuf_height` lines is OK, but won't provide any material speed improvement over that height.)

### Special color spaces

-----

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB  $\Leftrightarrow$  YCbCr and CMYK  $\Leftrightarrow$  YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color space depending on `in_color_space`, but you can override this by calling `jpeg_set_colorspace()`. Of course you must select a supported transformation. `jpegcolor.c` currently supports the following transformations:

RGB => YCbCr

RGB => GRAYSCALE

YCbCr => GRAYSCALE

CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that

these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. `jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to `JCS_YCbCr`; use `JCS_UNKNOWN`. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is `UNKNOWN`, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for `jpeg_set_colorspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`. `jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports

`YCbCr => GRAYSCALE`

`YCbCr => RGB`

`GRAYSCALE => RGB`

`YCK => CMYK`

as well as the null transforms. (Since `GRAYSCALE=>RGB` is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

**CAUTION:** it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.

This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the `CMYK<=>YCK` transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCK in

EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

## Error handling

-----

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on `stderr`, followed by `exit()`. You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- \* Fatal errors: the library cannot continue.
- \* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- \* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by `example.c`.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the `jpeg_error_mgr` struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client\_data" in each JPEG object, which the application can also use to find related data. The library does not touch `client_data` at all.)

The individual methods that you might wish to override are:

`error_exit(j_common_ptr cinfo)`

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere. Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message(j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message(j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message(j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an add-on table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the add-on messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using add-on messages (the add-on messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

ERREXITn(...) for fatal errors

WARNMSn(...) for corrupt-data warnings

TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the `error_exit()` or `emit_message()` method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard `printf()` format codes.

See `jerror.h` and `jerror.c` for further details.

#### Compressed data handling (source and destination managers)

-----

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype `JOCTET`, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define `JOCTET` as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's `empty_output_buffer` method must reset the pointer

and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

`init_destination (j_compress_ptr cinfo)`

Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`

This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the \*entire\* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`

Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;        /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer

is emptied. The manager's `fill_input_buffer` method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

`term_source (j_decompress_ptr cinfo)`

Terminate source --- called by `jpeg_finish_decompress()` after all data has been read. Often a no-op.



For both `fill_input_buffer()` and `skip_input_data()`, there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via `ERREXIT()` or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. `jdatasrc.c` illustrates the recommended error recovery behavior.

`term_source()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_source_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatasrc.c` and `jdatadst.c`.

## I/O suspension

-----

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- \* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- \* When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its

operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns `FALSE` (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- \* `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- \* `jpeg_start_decompress()`: will return `FALSE`, rather than its usual `TRUE`.
- \* `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- \* `jpeg_finish_decompress()`: will return `FALSE`, rather than its usual `TRUE`.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return `FALSE`, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; `FALSE` is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when `FALSE` is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return `FALSE`. If the JPEG library has not moved the pointer/count forward in the current buffer, then \*the correct restart point is the saved position in the prior buffer\*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is

called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

## Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

### Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan\_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list,

you can call the `jpeg_simple_progression()` helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in `rdswitch.c`, so that you can read scan script files just like `cjpeg`'s.)

When `scan_info` is not `NULL`, the compression library will store DCT'd data into a buffer array as `jpeg_write_scanlines()` is called, and will emit all the requested scans during `jpeg_finish_compress()`. This implies that multiple-scan output cannot be created with a suspending data destination manager, since `jpeg_finish_compress()` does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during `jpeg_start_decompress()`, so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from `jpeg_start_decompress()`.

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

-----

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()  
set data source  
jpeg_read_header()
```

```

set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

`JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)

`JPEG_REACHED_EOI`: reached the EOI marker (end of image)

`JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data

`JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan

`JPEG_SUSPENDED`: suspended before completing any of the above

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

- \* You can limit buildup of unprocessed data in your input buffer.
- \* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or `JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls



jpeg\_consume\_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg\_start\_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg\_consume\_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting `JPEG_REACHED_SOS` returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns `JPEG_REACHED_SOS` or `JPEG_REACHED_EOI`. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't

let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- \* `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)

- \* `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.

- \* `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)

- \* `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend.

In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

- \* `dct_method` can be changed before each call to `jpeg_start_output()`.

For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

- \* `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.

- \* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image.

During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

\* Color quantization mode can be changed under the rules described below. You \*cannot\* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.  
Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
  2. Single-pass quantization to an application-supplied colormap.  
Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.
  3. Two-pass quantization to a colormap chosen specifically for the image.  
Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`. (This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)
- These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to TRUE:

`enable_1pass_quant` Fixed color cube colormap  
`enable_external_quant` Externally-supplied colormap  
`enable_2pass_quant` Two-pass custom colormap

All three are initialized FALSE by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets TRUE the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass

quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header()`'s codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input;

it'll just keep returning JPEG\_REACHED\_SOS until you do. If you read a tables-only file this way, jpeg\_consume\_input() will return JPEG\_REACHED\_EOI without ever returning JPEG\_REACHED\_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg\_abort() to reset it. It is OK to call jpeg\_consume\_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG\_SUSPENDED.

#### Abbreviated datastreams and multiple images

-----

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- \* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- \* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- \* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent\_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent\_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg\_start\_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg\_suppress\_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent\_table fields directly.

To create an abbreviated image, you must also call jpeg\_start\_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg\_start\_compress() will force all the sent\_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg\_start\_compress() and so on, call jpeg\_write\_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent\_tables flag is already TRUE, and then all the sent\_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg\_start\_compress() ... jpeg\_finish\_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than



hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header()` ... `jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

## Special markers

-----

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data.

Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG\_COM" for COM or "JPEG\_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting

any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by

following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere

with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

#### Raw (downsampled) image data

-----

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

\* Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.)

This notifies the library that you will be supplying raw data.

Furthermore, set `cinfo->do_fancy_downsampling` to `FALSE` if you want to use real downsampled data. (It is set `TRUE` by `jpeg_set_defaults()`.)

\* Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.

\* Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a `JSAMPIMAGE` data array rather than `JSAMPARRAY`. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

`jpeg_write_raw_data()` processes one MCU row per call, which is to say `v_samp_factor*DCTSIZE` sample rows of each component. The passed `num_lines` value must be at least `max_v_samp_factor*DCTSIZE`, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

`cinfo->comp_info[i].width_in_blocks*DCTSIZE` samples per row

`cinfo->comp_info[i].height_in_blocks*DCTSIZE` rows in image

after `jpeg_start_compress()` has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than `DCTSIZE` samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

`cinfo->comp_info[0].h_samp_factor = 2` for Y

`cinfo->comp_info[0].v_samp_factor = 2`

`cinfo->comp_info[1].h_samp_factor = 1` for Cb

`cinfo->comp_info[1].v_samp_factor = 1`

`cinfo->comp_info[2].h_samp_factor = 1` for Cr

`cinfo->comp_info[2].v_samp_factor = 1`

and suppose that the nominal image dimensions (`cinfo->image_width` and `cinfo->image_height`) are 101x101 pixels. Then `jpeg_start_compress()` will compute `downsampled_width = 101` and `width_in_blocks = 13` for Y, `downsampled_width = 51` and `width_in_blocks = 7` for Cb and Cr (and the same for the height fields). You must pad the Y data to at least  $13*8 = 104$  columns and rows, the Cb/Cr data to at least  $7*8 = 56$  columns and rows. The MCU height is `max_v_samp_factor = 2` DCT rows so you must pass at least 16

scanlines on each call to `jpeg_write_raw_data()`, which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of  $7*16 = 112$  "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, `jpeg_write_raw_data()` will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before `jpeg_start_decompress()` (it is set FALSE by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set `cinfo->do_fancy_upsampling = FALSE` if you want to get real downsampled data (it is set TRUE by `jpeg_read_header()`). Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*DCTSIZE` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

-----

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also read `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- \* Create compression object
- \* Set all compression parameters as necessary
- \* Request virtual arrays if needed



- \* jpeg\_write\_coefficients()
- \* jpeg\_finish\_compress()
- \* Destroy or re-use compression object

jpeg\_write\_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num\_components.

The virtual arrays need only have been requested, not realized, before jpeg\_write\_coefficients() is called. A side-effect of jpeg\_write\_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg\_write\_coefficients(). The data is actually written out when you call jpeg\_finish\_compress(); jpeg\_write\_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg\_copy\_critical\_parameters(). This routine initializes all the compression parameters to default values (like jpeg\_set\_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg\_finish\_decompress().

jpeg\_write\_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg\_start\_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg\_suppress\_tables(), or set the tables' individual sent\_table flags, between calling jpeg\_write\_coefficients() and jpeg\_finish\_compress().

#### Progress monitoring

-----

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg\_read\_scanlines or jpeg\_write\_scanlines loop), any additional passes will occur inside jpeg\_finish\_compress or jpeg\_start\_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that.

At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime `JPOOL_PERMANENT` will work nicely.) You can use the same callback routine for both compression and decompression.

The `jpeg_progress_mgr` struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, `pass_counter` increases from 0 up to (not including) `pass_limit`; the step size is usually but not necessarily 1. The `pass_limit` value may change from one pass to another. The expected total number of passes is in `total_passes`, and the number of passes already completed is in `completed_passes`. Thus the fraction of work completed may be estimated as

```
-----
total_passes
```

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, `pass_limit` can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets `total_passes` based on the assumption that there will be one more output pass if the input file end hasn't yet been read (`jpeg_input_complete()` isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that `total_passes` will rise as additional output passes are requested. If you have a way of determining the input file

size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

## Memory management

-----

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read `structure.txt`'s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use `malloc()` and `free()` for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object.

Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes.

There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before `jpeg_start_compress()` or `jpeg_start_decompress()` in

order to have them counted against the max memory limit. Also keep in mind that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c` either, since the C library is supposed to take care of deleting files made with `tmpfile()`.

## Memory usage

-----

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes \* width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jmemnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the `MEM_STATS` code in `jmemmgr.c`.

### Library compile-time options

-----

A number of compile-time options are available by modifying `jmorecfg.h`.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define `BITS_IN_JSAMPLE` as 12 rather than 8. Note that this causes `JSAMPLE` to be larger than a char, so it affects the surrounding application's image data.

The sample applications `cjpeg` and `djpeg` can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit `cjpeg` or `djpeg`. (`install.txt` has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining `NEED_SHORT_EXTERNAL_NAMES` for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by `MAX_COMPONENTS`. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve

performance or reduce memory space by tweaking the various typedefs in `jmorcfcfg.h`. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making `JCOEF`, `INT16`, and `UINT16` be "int" or "unsigned int". `UINT8` is also a candidate to become int. You probably don't want to make `JSAMPLE` be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine `xxx_SUPPORTED` symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (`jpeg_std_message_table[]`) from `jerror.c`, and alter `format_message` to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the `TRACEMSn()` macros in `jerror.h` to expand to nothing; you don't need trace capability anyway, right?

#### Portability considerations

-----

The JPEG library has been written to be extremely portable; the sample applications `cjpeg` and `djpeg` are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See `install.txt` for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in `jmorcfcfg.h`. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain

int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select\_file\_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED\_SHORT\_EXTERNAL\_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

-----

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good

deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/libjpeg.txt

No license file was found, but licenses were detected in source scan.

/\*

\* ckconfig.c

\*

\* Copyright (C) 1991-1994, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

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\* jccoefct.c

\*

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\*

\* This file contains the coefficient buffer controller for compression.

\* This controller is the top level of the JPEG compressor proper.

\* The coefficient buffer lies between forward-DCT and entropy encoding steps.

\*/



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\* jcarith.c

\*

\* Developed 1997-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains portable arithmetic entropy encoding routines for JPEG

\* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

\*

\* Both sequential and progressive modes are supported in this single module.

\*

\* Suspension is not currently supported in this module.

\*/

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\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcarith.c

No license file was found, but licenses were detected in source scan.

/\*

\* jcomapi.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface routines that are used for both

\* compression and decompression.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcomapi.c

No license file was found, but licenses were detected in source scan.

/\*

\* jfdctint.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modification developed 2003-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a slow-but-accurate integer implementation of the

\* forward DCT (Discrete Cosine Transform).  
 \*  
 \* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT  
 \* on each column. Direct algorithms are also available, but they are  
 \* much more complex and seem not to be any faster when reduced to code.  
 \*  
 \* This implementation is based on an algorithm described in  
 \* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT  
 \* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,  
 \* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.  
 \* The primary algorithm described there uses 11 multiplies and 29 adds.  
 \* We use their alternate method with 12 multiplies and 32 adds.  
 \* The advantage of this method is that no data path contains more than one  
 \* multiplication; this allows a very simple and accurate implementation in  
 \* scaled fixed-point arithmetic, with a minimal number of shifts.  
 \*  
 \* We also provide FDCT routines with various input sample block sizes for  
 \* direct resolution reduction or enlargement and for direct resolving the  
 \* common 2x1 and 1x2 subsampling cases without additional resampling: NxN  
 \* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.  
 \*  
 \* For N<8 we fill the remaining block coefficients with zero.  
 \* For N>8 we apply a partial N-point FDCT on the input samples, computing  
 \* just the lower 8 frequency coefficients and discarding the rest.  
 \*  
 \* We must scale the output coefficients of the N-point FDCT appropriately  
 \* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling  
 \* is folded into the constant multipliers (pass 2) and/or final/initial  
 \* shifting.  
 \*  
 \* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases  
 \* since there would be too many additional constants to pre-calculate.  
 \*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jfdctint.c

No license file was found, but licenses were detected in source scan.

/\*

\* jdmainct.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the main buffer controller for decompression.

\* The main buffer lies between the JPEG decompressor proper and the

\* post-processor; it holds downsampled data in the JPEG colorspace.

\*  
\* Note that this code is bypassed in raw-data mode, since the application  
\* supplies the equivalent of the main buffer in that case.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmainct.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jdapistd.c  
\*  
\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains application interface code for the decompression half  
\* of the JPEG library. These are the "standard" API routines that are  
\* used in the normal full-decompression case. They are not used by a  
\* transcoding-only application. Note that if an application links in  
\* jpeg\_start\_decompress, it will end up linking in the entire decompressor.  
\* We thus must separate this file from jdapimin.c to avoid linking the  
\* whole decompression library into a transcoder.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdapistd.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jquant1.c  
\*  
\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains 1-pass color quantization (color mapping) routines.  
\* These routines provide mapping to a fixed color map using equally spaced  
\* color values. Optional Floyd-Steinberg or ordered dithering is available.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jquant1.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* wrgif.c  
\*  
\*/

```

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
*****
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files. *
* There is no trace of the LZW algorithm in this file. *
*****
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrgif.c
```

No license file was found, but licenses were detected in source scan.

#### IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles

is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see `jpeg/doc/cstyle.ms.tbl.Z`, or `cstyle.txt.Z` for those without `nroff/tbl`).

Block comments should be laid out thusly:

```
/*
 * Block comments in this style.
 */
```

We indent statements in K&R style, e.g.,

```
if (test) {
    then-part;
} else {
    else-part;
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants are similar but upper case (`MULTI_WORD_NAME`). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool '`ansi2knr.c`' (courtesy of Ghostscript). `ansi2knr` is not very bright, so it imposes a format requirement on function declarations: the function name **MUST BEGIN IN COLUMN 1**. Thus all functions should be written in the following style:

```
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with `GLOBAL(type)`, `LOCAL(type)`, or `METHODDEF(type)`. These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size\_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size\_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg\_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED\_SHORT\_EXTERNAL\_NAMES is set.
3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see

the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/coderules.txt  
No license file was found, but licenses were detected in source scan.

```
/*
 * jcmaint.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */
```

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmaint.c  
No license file was found, but licenses were detected in source scan.

```
/*
 * jdhuft.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
```

\* into local working storage, and update them back to the permanent  
\* storage only upon successful completion of an MCU.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdhuff.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jfdctflt.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2003-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a floating-point implementation of the

\* forward DCT (Discrete Cosine Transform).

\*

\* This implementation should be more accurate than either of the integer

\* DCT implementations. However, it may not give the same results on all

\* machines because of differences in roundoff behavior. Speed will depend

\* on the hardware's floating point capacity.

\*

\* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

\* on each column. Direct algorithms are also available, but they are

\* much more complex and seem not to be any faster when reduced to code.

\*

\* This implementation is based on Arai, Agui, and Nakajima's algorithm for

\* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in

\* Japanese, but the algorithm is described in the Pennebaker & Mitchell

\* JPEG textbook (see REFERENCES section in file README). The following code

\* is based directly on figure 4-8 in P&M.

\* While an 8-point DCT cannot be done in less than 11 multiplies, it is

\* possible to arrange the computation so that many of the multiplies are

\* simple scalings of the final outputs. These multiplies can then be

\* folded into the multiplications or divisions by the JPEG quantization

\* table entries. The AA&N method leaves only 5 multiplies and 29 adds

\* to be done in the DCT itself.

\* The primary disadvantage of this method is that with a fixed-point

\* implementation, accuracy is lost due to imprecise representation of the

\* scaled quantization values. However, that problem does not arise if

\* we use floating point arithmetic.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jfdctflt.c



No license file was found, but licenses were detected in source scan.

```
/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules.  These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */
```

Found in path(s):

```
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdct.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application.  On resumption, we reprocess
 * the marker.
 */
```

Found in path(s):

```
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmarker.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
```

- \* followed by mapping of the image to that color map, with optional
- \* Floyd-Steinberg dithering.
- \* It is also possible to use just the second pass to map to an arbitrary
- \* externally-given color map.
- \*
- \* Note: ordered dithering is not supported, since there isn't any fast
- \* way to compute intercolor distances; it's unclear that ordered dither's
- \* fundamental assumptions even hold with an irregularly spaced color map.
- \*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jquant2.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcinit.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains initialization logic for the JPEG compressor.

\* This routine is in charge of selecting the modules to be executed and

\* making an initialization call to each one.

\*

\* Logically, this code belongs in jcmaster.c. It's split out because

\* linking this routine implies linking the entire compression library.

\* For a transcoding-only application, we want to be able to use jcmaster.c

\* without linking in the whole library.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcinit.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jinclude.h

\*

\* Copyright (C) 1991-1994, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file exists to provide a single place to fix any problems with

\* including the wrong system include files. (Common problems are taken

\* care of by the standard jconfig symbols, but on really weird systems

\* you may have to edit this file.)

\*

\* NOTE: this file is NOT intended to be included by applications using the

\* JPEG library. Most applications need only include jpeglib.h.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jinclude.h

No license file was found, but licenses were detected in source scan.

/\*

\* jcsample.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains downsampling routines.

\*

\* Downsampling input data is counted in "row groups". A row group

\* is defined to be max\_v\_samp\_factor pixel rows of each component,

\* from which the downsampler produces v\_samp\_factor sample rows.

\* A single row group is processed in each call to the downsampler module.

\*

\* The downsampler is responsible for edge-expansion of its output data

\* to fill an integral number of DCT blocks horizontally. The source buffer

\* may be modified if it is helpful for this purpose (the source buffer is

\* allocated wide enough to correspond to the desired output width).

\* The caller (the prep controller) is responsible for vertical padding.

\*

\* The downsampler may request "context rows" by setting need\_context\_rows

\* during startup. In this case, the input arrays will contain at least

\* one row group's worth of pixels above and below the passed-in data;

\* the caller will create dummy rows at image top and bottom by replicating

\* the first or last real pixel row.

\*

\* An excellent reference for image resampling is

\* Digital Image Warping, George Wolberg, 1990.

\* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

\*

\* The downsampling algorithm used here is a simple average of the source

\* pixels covered by the output pixel. The hi-falutin sampling literature

\* refers to this as a "box filter". In general the characteristics of a box

\* filter are not very good, but for the specific cases we normally use (1:1

\* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not

\* nearly so bad. If you intend to use other sampling ratios, you'd be well

\* advised to improve this code.

\*

\* A simple input-smoothing capability is provided. This is mainly intended

\* for cleaning up color-dithered GIF input files (if you find it inadequate,

\* we suggest using an external filtering program such as pnmconvol). When

\* enabled, each input pixel P is replaced by a weighted sum of itself and its  
\* eight neighbors. P's weight is 1-8\*SF and each neighbor's weight is SF,  
\* where SF = (smoothing\_factor / 1024).  
\* Currently, smoothing is only supported for 2h2v sampling factors.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcsample.c  
No license file was found, but licenses were detected in source scan.

/\*

\* rdcolmap.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file implements djpeg's "-map file" switch. It reads a source image

\* and constructs a colormap to be supplied to the JPEG decompressor.

\*

\* Currently, these file formats are supported for the map file:

\* GIF: the contents of the GIF's global colormap are used.

\* PPM (either text or raw flavor): the entire file is read and

\* each unique pixel value is entered in the map.

\* Note that reading a large PPM file will be horrendously slow.

\* Typically, a PPM-format map file should contain just one pixel

\* of each desired color. Such a file can be extracted from an

\* ordinary image PPM file with ppmtomap(1).

\*

\* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not

\* currently implemented.

\*/

/\* Portions of this code are based on the PBMPLUS library, which is:

\*\*

\*\* Copyright (C) 1988 by Jef Poskanzer.

\*\*

\*\* Permission to use, copy, modify, and distribute this software and its

\*\* documentation for any purpose and without fee is hereby granted, provided

\*\* that the above copyright notice appear in all copies and that both that

\*\* copyright notice and this permission notice appear in supporting

\*\* documentation. This software is provided "as is" without express or

\*\* implied warranty.

\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdcolmap.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemnobs.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuft.c, and jdarith.c.
 */
```

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdinput.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
```

\* These routines are concerned with parameter validation, initial setup,  
\* and inter-pass control (determining the number of passes and the work  
\* to be done in each pass).  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmaster.c  
No license file was found, but licenses were detected in source scan.

/\*

\* rdjpgcom.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.  
\* Modified 2009 by Bill Allombert, Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains a very simple stand-alone application that displays  
\* the text in COM (comment) markers in a JFIF file.  
\* This may be useful as an example of the minimum logic needed to parse  
\* JPEG markers.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdjpgcom.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jdatadst.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* Modified 2009 by Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains compression data destination routines for the case of  
\* emitting JPEG data to memory or to a file (or any stdio stream).  
\* While these routines are sufficient for most applications,  
\* some will want to use a different destination manager.  
\* IMPORTANT: we assume that fwrite() will correctly transcribe an array of  
\* JOCTETs into 8-bit-wide elements on external storage. If char is wider  
\* than 8 bits on your machine, you may need to do some tweaking.  
\*/

Found in path(s):

\* /opt/cola/permits/161014486\_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdatadst.c

# 1.329 shiro-all 1.2.4

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## 1.330 commons-http-client 3.1

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\* /opt/cola/permits/1176805210\_1634569914.38/0/netty-buffer-4-1-62-final-jar/META-INF/maven/io.netty/netty-buffer/pom.xml

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Manifest-Version: 1.0  
Implementation-Title: Netty/Buffer  
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.  
Automatic-Module-Name: io.netty.buffer  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.buffer  
Implementation-Version: 4.1.62.Final  
Built-By: norman  
Bnd-LastModified: 1617128225125  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.1.62",io.netty.buffer.search;uses:="io.netty.util";version="4.1.62"  
Bundle-Name: Netty/Buffer  
Bundle-Version: 4.1.62.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-buffer/>

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# 1.332 asm 3.1

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```

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```

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```

```
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
```

```
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
```

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```



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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-

jar/org/objectweb/asm/util/TraceSignatureVisitor.java

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jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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jar/org/objectweb/asm/util/CheckMethodAdapter.java

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jar/org/objectweb/asm/AnnotationVisitor.java

\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-

jar/org/objectweb/asm/tree/analysis/Analyzer.java

\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Interpreter.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodWriter.java  
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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java  
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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/InsnList.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/AbstractVisitor.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SmallSet.java  
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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/Method.java  
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Eclipse

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- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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## Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.338 resteasy-cdi 2.3.4.Final

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## 1.339 jakarta-ws-rs-api 2.1.6

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### ## Source Code

The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/jaxrs-api>

### ## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

\* License: Apache-2.0 AND W3C

JUnit (4.11)

\* License: Common Public License 1.0

Mockito (2.16.0)

\* Project: <http://site.mockito.org>

\* Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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# 1.340 saxon 9.8.0-10

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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## Apache

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.346 hibernatejpa2.0api 1.0.1.Final

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## 1.347 jakarta-annotation-api 1.3.4

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# 1.350 netty-transport-native-unix-common

## 4.1.62.Final

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\* /opt/cola/permits/1171712286\_1623127825.96/0/netty-transport-native-unix-common-4-1-62-final-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Unix/Common

Bundle-Description: Static library which contains common unix utilities.

Automatic-Module-Name: io.netty.transport.unix.common

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-unix-common

Implementation-Version: 4.1.62.Final

Built-By: norman

Bnd-LastModified: 1617128320115

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.channel.unix;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.util";version="4.1.62"  
Bundle-Name: Netty/Transport/Native/Unix/Common  
Bundle-Version: 4.1.62.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
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\* /opt/cola/permits/1171712286\_1623127825.96/0/netty-transport-native-unix-common-4-1-62-final-jar/META-INF/MANIFEST.MF

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## 1.353 apache-http-server 2.4.2

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For the server\util\_md5.c component:

```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group

```

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```

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```
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Written by: Philip Hazel <ph10@cam.ac.uk>

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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

\*/

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# 1.354 http2-common 9.4.28.v20200408

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

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- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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# 1.356 netty-transport-native-epoll 4.1.62.Final

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Found in path(s):

\* /opt/cola/permits/1171712299\_1623127843.95/0/netty-transport-native-epoll-4-1-62-final-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.epoll

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-epoll

Implementation-Version: 4.1.62.Final

Built-By: root

Bnd-LastModified: 1617125771772

Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: https://netty.io/  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util,io.netty.util.concurrent";version="4.1.62"  
Bundle-Name: Netty/Transport/Native/Epoll  
Bundle-Version: 4.1.62.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_272  
Implementation-URL: https://netty.io/netty-transport-native-epoll/

Found in path(s):

\* /opt/cola/permits/1171712299\_1623127843.95/0/netty-transport-native-epoll-4-1-62-final-jar/META-INF/MANIFEST.MF

## 1.357 xml-beans 2.5.0

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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlTokenSource.java

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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/PrePostExtension.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/util/Diff.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/InterfaceExtension.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/BindingConfig.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/util/FilerImpl.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/Filer.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/config/PrePostExtensionImpl.java

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File: ConcurrentReaderHashMap

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History:

Date	Who	What
28oct1999	dl	Created
14dec1999	dl	jmm snapshot
19apr2000	dl	use barrierLock
12jan2001	dl	public release
17nov2001	dl	Minor tunings
20may2002	dl	BarrierLock can now be serialized.
09dec2002	dl	Fix interference checks.

\*/

Found in path(s):

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/common/ConcurrentReaderHashMap.java  
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```
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*/
/**
 * If this option is set, the unique particle attribution rule is not
 * enforced when building a <code>SchemaTypeSystem</code>. See
 * <a target="_blank" href="http://www.w3.org/TR/xmlschema-1/#non-ambig">Appendix H of the XML Schema
specification</a>
 * for information on the UPA rule.
 *
 * @see XmlBeans#compileXsd
 */
```

Found in path(s):

```
*/opt/cola/permits/1104749619_1611188760.52/0/xmlbeans-2-5-0-source-
jar/org/apache/xmlbeans/XmlOptions.java
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 */
/**
 * cos-nonambig: See
 * <a href="http://www.w3c.org/TR/xmlschema-1/#cos-nonambig">XMLSchema Structures 1.0: Unique Particle
Attribution</a>
 */
```

Found in path(s):

```
*/opt/cola/permits/1104749619_1611188760.52/0/xmlbeans-2-5-0-source-
jar/org/apache/xmlbeans/XmlErrorCodes.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1104749619_1611188760.52/0/xmlbeans-2-5-0-source-
jar/org/apache/xmlbeans/DelegateXmlObject.java
```

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*/
// if we can, then particle attribution is not unique
```

Found in path(s):

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* /opt/cola/permits/1104749619_1611188760.52/0/xmlbeans-2-5-0-source-
jar/org/apache/xmlbeans/impl/schema/StscComplexTypeResolver.java
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```
*/
/**
 * True if no unique particle attribution option is set
 */
```

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```
*/opt/cola/permits/1104749619_1611188760.52/0/xmlbeans-2-5-0-source-
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```

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 */
/**
 * Do not enforce the unique particle attribution rule.
 */
```

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*/opt/cola/permits/1104749619_1611188760.52/0/xmlbeans-2-5-0-source-
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- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/SchemaAttributeModel.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlIntegerImpl.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlGMonthDay.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/xml/stream/ChangePrefixMapping.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/util/XsTypeConverter.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/JavaDoubleHolder.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlTimeImpl.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/schema/SchemaStringEnumEntryImpl.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/soap/SOAPConstants.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/soap/FactoryFinder.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/xml/stream/BufferedXMLInputStream.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/config/NameSet.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/FilterXmlObject.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/JavaGDurationHolderEx.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlGMonthImpl.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/SimpleValue.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlUnsignedLong.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlTokenImpl.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/SchemaCodePrinter.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlDecimalImpl.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/inst2xsd/VenetianBlindStrategy.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/w3c/dom/TypeInfo.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/soap/Name.java
- \* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/soap/SOAPHeader.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/store/Locale.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/schema/SchemaPropertyImpl.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlSaxHandler.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/soap/SOAPPart.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlGYear.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/common/ResolverUtil.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/JavaFloatHolder.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/SchemaBookmark.java  
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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlComplexContentImpl.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/inst2xsd/util/Attribute.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/SchemaLocalElement.java  
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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-  
jar/org/apache/xmlbeans/xml/stream/EntityReference.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-  
jar/org/apache/xmlbeans/xml/stream/Utils/NestedThrowable.java

\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/repackage/EditBuildScript.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlIDREF.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlNonPositiveInteger.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/XmlFloat.java  
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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/regex/ParseException.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/schema/StscResolver.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/common/XPath.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/SchemaTypeLoader.java  
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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlNotationImpl.java  
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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/common/XmlObjectList.java  
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\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/values/XmlBase64BinaryImpl.java  
\* /opt/cola/permits/1104749619\_1611188760.52/0/xmlbeans-2-5-0-source-jar/org/apache/xmlbeans/impl/xsd2inst/SampleXmlUtil.java  
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jar/org/apache/xmlbeans/impl/xpath/saxon/XBeansXPath.java  
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History and License

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to



form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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## Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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## Floating point exception control

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Asynchronous socket services  
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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

#### XML Remote Procedure Calls

-----

The `:mod:`xmlrpc.client`` module contains the following notice::

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test\_epoll

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Select kqueue

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SipHash24

-----

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([superfjord/cryptauth/siphash24/little](https://github.com/superfjord/cryptauth/blob/master/siphash24/little.c))

djb ([superfjord/cryptauth/siphash24/little2](https://github.com/superfjord/cryptauth/blob/master/siphash24/little2.c))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib  
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cfuhash

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/IDefaultProvider.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/ResourceBundle.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/Parameters.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/MissingCommandException.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/JCommander.java
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- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/LongConverter.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/FloatConverter.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/internal/Lists.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/ParameterDescription.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/NoConverter.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/URLConverter.java
- \* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-

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\*/

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jar/com/beust/jcommander/validators/PositiveInteger.java

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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-  
jar/com/beust/jcommander/IPParameterValidator.java  
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# 1.365 jctools-core 3.0.0

## 1.365.1 Available under license :

No license file was found, but licenses were detected in source scan.

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</dependencies>
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    </plugin>
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      <configuration>
        <additionalOptions>
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      </configuration>
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    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
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    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
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  </license>
</licenses>

<scm>
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  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>

<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>

```

```

</developer>
<developer>
  <url>https://github.com/franz1981</url>
</developer>
</developers>

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</prerequisites>

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  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

Found in path(s):

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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 \*/

Found in path(s):

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org.jctools/queues/MessagePassingQueueUtil.java

- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCGrowableArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/Pow2.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/InternalAPI.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCLinkedQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/Ordering.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/Preference.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/AbstractEntry.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
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\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-  
jar/org/jctools/queues/atomic/AtomicQueueFactory.java

## 1.366 okio 1.13.0

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Found in path(s):

\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Utf8.java  
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\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Pipe.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSource.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Options.java  
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Found in path(s):

- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Util.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Buffer.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Segment.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSource.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSource.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Timeout.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Sink.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentPool.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSink.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/DeflaterSink.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Okio.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/AsyncTimeout.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSource.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/InflaterSource.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSink.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Source.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSink.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSink.java
- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSource.java

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- \* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ByteString.java

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\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingTimeout.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentedByteString.java  
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Found in path(s):

\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Base64.java

## 1.367 maven-settings-builder 3.6.0

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## 1.368 ecj 22

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## 1.369 jackson-datatype-jdk8 2.10.5

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Manifest-Version: 1.0

Bnd-LastModified: 1595301005506

Build-Jdk: 1.8.0\_162

Built-By: tatu

Bundle-Description: Add-on module for Jackson (<http://jackson.codehaus.org>) to supportJDK 8 data types.

Bundle-DocURL: <https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Jackson datatype: jdk8

Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-jdk8

Bundle-Vendor: FasterXML

Bundle-Version: 2.10.5

Created-By: Apache Maven Bundle Plugin

Export-Package: com.fasterxml.jackson.datatype.jdk8;version="2.10.5";uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.core.io,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.deser,com.fasterxml.jackson.databind.deser.std,com.fasterxml.jackson.databind.jsonFormatVisitors,com.fasterxml.jackson.databind.jsontype,com.fasterxml.jackson.databind.ser,com.fasterxml.jackson.databind.ser.impl,com.fasterxml.jackson.databind.ser.std,com.fasterxml.jackson.databind.type,com.fasterxml.jackson.databind.util"

Implementation-Build-Date: 2020-07-21 03:09:44+0000

Implementation-Title: Jackson datatype: jdk8

Implementation-Vendor: FasterXML

Implementation-Vendor-Id: com.fasterxml.jackson.datatype

Implementation-Version: 2.10.5

Import-Package: com.fasterxml.jackson.core;version="[2.10,3)",com.fasterxml.jackson.core.io;version="[2.10,3)",com.fasterxml.jackson.core.util;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,3)",com.fasterxml.jackson.databind.deser;version="[2.10,3)",com.fasterxml.jackson.databind.deser.std;version="[2.10,3)",com.fasterxml.jackson.databind.jsonFormatVisitors;version="[2.10,3)",com.fasterxml.jackson.databind.jsontype;version="[2.10,3)",com.fasterxml.jackson.databind.ser;version="[2.10,3)",com.fasterxml.jackson.databind.ser.impl;version="[2.10,3)",com.fasterxml.jackson.databind.ser.std;version="[2.10,3)",com.fasterxml.jackson.databind.type;version="[2.10,3)",com.fasterxml.jackson.databind.util;version="[2.10,3)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Specification-Title: Jackson datatype: jdk8

Specification-Vendor: FasterXML

Specification-Version: 2.10.5

Tool: Bnd-4.2.0.201903051501

X-Compile-Source-JDK: 1.8

X-Compile-Target-JDK: 1.8

Found in path(s):

\* /opt/cola/permits/1154615874\_1618867970.74/0/jackson-datatype-jdk8-2-10-5-5-jar/META-INF/MANIFEST.MF

# 1.370 lz4-java 1.7.1

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# 1.371 antlr 2.7.5

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The primary ANTLR guy:

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parr@cs.usfca.edu  
parr@antlr.org

## 1.372 jopt-simple 5.0.4

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- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-

jar/joptsimple/RequiredArgumentOptionSpec.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/SimpleOptionNameMap.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MultipleArgumentsForOptionException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Row.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NonOptionArgumentSpec.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecBuilder.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MissingRequiredOptionsException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/KeyValuePair.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/IllegalOptionSpecificationException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Strings.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionMissingRequiredArgumentException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentAcceptingOptionSpec.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/InetAddressConverter.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/BuiltinHelpFormatter.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecTokenizer.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ReflectionException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/OptionNameMap.java  
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## 1.373 jakarta.mail-api 1.6.3

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## 1.374 jackson-mapper-asl 1.8.5

## 1.374.1 Available under license :

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```
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078630302_1597365191.3/0/jackson-mapper-asl-1-8-5-sources-3-  
jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

## 1.375 wstx-asl 3.2.7

## 1.376 pfl-dynamic 4.0.1

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*  
* SPDX-License-Identifier: BSD-3-Clause  
*/
```

Found in path(s):

```
* /opt/cola/permits/1144733458_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-  
jar/org/glassfish/pfl/dynamic/copyobject/impl/Exceptions.java  
* /opt/cola/permits/1144733458_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-  
jar/org/glassfish/pfl/dynamic/codegen/impl/NopVisitor.java
```

\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/MemberInfoBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/Immutable.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/SourceStatementVisitor.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/CodegenCopierGenerator.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/CodegenPrinter.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/CopyobjectDefaults.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/Copy.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/MethodInfo.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Interceptor.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/BlockStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/ModifiableMethod.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/CurrentClassLoader.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Expression.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/ModifiableClass.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/FastCacheTest.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/ClassCopierOrdinaryImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/MethodInfoReflectiveImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/MethodInfoBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/WhileStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/DefaultCopier.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/CopyType.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Wrapper.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/DefinitionStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/ReflectiveCopyException.java

\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ThrowStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/SourceExpressionVisitor.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/VariableInternal.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ImportListImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/TreeWalker.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/ClassCopier.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/PipelineClassCopierFactory.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/CodeGeneratorUtil.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/NodeBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/Util.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ExpressionInternal.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Signature.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/MethodGenerator.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/ModifiableFieldReference.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ExpressionFactory.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/ClassGenerator.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/ClassCopierFactoryArrayImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/IfStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ReturnStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ClassGeneratorImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Variable.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/ClassInfo.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/JavaStreamObjectCopierImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/Statement.java

\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/Attribute.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/DefaultClassCopierFactories.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/CodegenCopierBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/ClassCopierFactoryPipelineImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/FieldInfo.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/FallbackObjectCopierImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ClassInfoReflectiveImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/CaseBranch.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/CopyInterceptor.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ASMUtil.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ASMByteCodeVisitor.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ASMSetupVisitor.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/SwitchStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/CodeGenerator.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/TryStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/AttributedObject.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/GenericClass.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/ObjectCopier.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/InterceptorContext.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/AttributedObjectBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/MemberInfo.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/ClassCopierFactory.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/ImportList.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/EmitterFactory.java

\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Type.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/CachingClassCopierFactory.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/ObjectCopierFactory.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/Identifier.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/FastCache.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ClassInfoBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/spi/LibraryClassLoader.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/StatementBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/FieldGenerator.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/ClassCopierBase.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/ObjectCopierImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/Visitor.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/DefaultClassCopiers.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Primitives.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/ByteCodeUtility.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/Utility.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/FieldInfoImpl.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/BreakStatement.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/TreeWalkerContext.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/MyLabel.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/Node.java  
\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/AssignmentStatement.java  
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#
```

GlassFish dependencies on copyobject:

```
spi.copyobject.CopyobjectDefaults
spi.copyobject.CopierManager
spi.copyobject.ObjectCopierFactory
spi.copyobject.OptimizedCopyObjectDefaults (from optional)
```

Do not move these, or change their packaging.

Classes used only in ReflectObjectCopierImpl:

```
import com.sun.corba.se.impl.util.Utility ;
import com.sun.corba.se.spi.logging.LogWrapperBase ;
import com.sun.corba.se.spi.orb.ORB ;
import org.omg.CORBA.portable.Delegate ;
import org.omg.CORBA.portable.ObjectImpl ;
```

Needed in ClassCopierOrdinaryImpl for USE\_BCEL\_REFLECTIVE\_COPYOBJECT.

```
import com.sun.corba.se.impl.orbutil.ORBConstants ;
```

Needed only in BCELCopierGenerator:

```
import org.apache.bcel.*;
import org.apache.bcel.classfile.*;
import org.apache.bcel.generic.*;
```

Moving copyobject into ORB library:

```
spi/copyobject
CopierManager orb
CopyobjectDefaults orb (depends on ORBStream)
ObjectCopierFactory orb
```

(move following to spi.orbutil.copyobject:)

```
ObjectCopier lib
ReflectiveCopyException lib
impl/copyobject
CopierManagerImpl orb
JavaStreamObjectCopierImpl orb: change to
    JavaStreamObjectORBCopierImpl orb (subclass overrides
copy, does autoconnect if obj instanceof Remote,
otherwise calls super.copy)
ORBStreamObjectCopierImpl orb
ReferenceObjectCopierImpl orb (don't need this for lib)
```

(move to impl/orbutil/copyobject)  
JavaStreamObjectCopierImpl lib (no autoconnect)  
FallbackObjectCopierImpl lib

optional spi/copyobject  
OptimizedCopyObjectDefaults orb

optional impl/copyobject  
OldReflectObjectCopierImpl orb (actually only need this for testing)  
optional impl/copyobject/newreflect  
Move the following to impl/orbutil/copyobject

replace:

BCELCopierBase.java  
BCELCopierGenerator.java  
with corresponding codegen classes. lib

CachingClassCopierFactory.java lib  
ClassCopier.java lib  
ClassCopierBase.java lib  
ClassCopierFactory.java lib  
ClassCopierFactoryArrayImpl.java lib  
ClassCopierFactoryPipelineImpl.java lib  
ClassCopierOrdinaryImpl.java lib  
DefaultClassCopierFactories.java lib  
DefaultClassCopiers.java lib  
FastCache.java lib  
FastCacheTest.java lib (test only)  
PipelineClassCopierFactory.java lib

Move to optional impl/copyobject:  
ReflectObjectCopierImpl.java orb

New order:

spi/orbutil/copyobject lib  
spi/copyobject orb  
impl/orbutil/copyobject lib  
impl/copyobject orb  
optional spi/copyobject orb  
optional spi/orbutil/copyobject lib

contains new class:

```
public class ObjectCopierFactory {  
    public static ObjectCopier make() {  
        ... // like new ReflectObjectCopierImpl, without CORBA bits  
    }  
}
```

optional impl/copyobject orb

optional impl/orbutil/copyobject lib

Found in path(s):

\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/imports.txt

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#
```

Note on improving the reflective copy object architecture.

Basic abstractions:

```
/** Creates an instance of an ObjectCopier to be used for a single session.
```

```
*/
```

```
ObjectCopierFactory {
    ObjectCopier make();
}
```

```
/** Used to copy objects in a single session: multiple calls to the
 * same ObjectCopier instance will share all aliases.
```

```
ObjectCopier {
    Object copy( Object obj ) throws ReflectiveCopyException ;
}
```

-----  
New Reflective case:

```
/** Used to copy an Object of a particular type. Preserves aliasing through
```

```
 * oldToNew.
```

```
*/
```

```
interface ClassCopier {
    Object copy( IdentityHashMap oldToNew, Object source ) throws ReflectiveCopyException ;
}
```

```
/** Create a ClassCopier for a particular type.
```

```
*/
```

```
ClassCopierFactory {
    ClassCopier get( Class cls ) throws ReflectiveCopyException ;
}
```

Use filter pattern: use a chain of ClassCopierFactory instances, take first non-null result.

Special ClassCopier instances:

```
DefaultClassCopiers
ClassCopier makeMapCopier( ClassCopierFactory ccf )
ClassCopier getIdentityCopier()
ClassCopier getErrorCopier()
```

ClassCopierFactory instances:

- A client may create a special ClassCopierFactory with arbitrary behavior.
- An ArrayClassCopierFactory that returns a ClassCopier for an array, and null for non-array
- A OrdinaryClassCopierFactory that returns a ClassCopier for any Class, and throws ReflectiveCopyException if it cannot create a ClassCopier.
- An ImmutableClassCopierFactory that returns an IdentityClassCopier if the class is immutable (also has registration API).
- A CachingClassCopierFactory that maintains a cache of know ClassCopier instances for particular classes (also has a registration API).
- PipelineCopierFactory:
- Does Caching -> Special (if present) -> Array -> Ordinary
- Updates cache if needed
- Provides API for:
  - registration of know ClassCopier instances
  - registration of immutable classes (go straight to cache)
  - registration of optional special ClassCopierFactory
- passes itself to Array and Ordinary ClassCopierFactory instances

DefaultClassCopierFactories:

```
ClassCopierFactory makeCachingClassCopierFactory()
ClassCopierFactory makeArrayClassCopierFactory( ClassCopierFactory )
ClassCopierFactory makeOrdinaryClassCopierFactory( ClassCopierFactory )
```

The "Ordinary" ClassCopier

The basic idea of the ordinary ClassCopier is to create a new instance according to the serialization rules, then somehow copy all of the non-static fields from the old object to the new one. The field copying is done through an instance of the ClassFieldCopier interface.

There are two approaches to copying the fields: reflection and unsafe.

The reflection approach works fine on all 1.4.x JVMs. However, it cannot copy non-static final fields. It may also be slightly slower than the unsafe version.

The unsafe approach does not work on 1.4.1\_03 (it crashes the VM!). But it

can copy non-static final fields, giving it somewhat greater applicability.

The appropriate `ClassFieldCopier` is chosen dynamically based on the JVM type. The intent is that the `copyObject` code will work correctly on any 1.4.x JDK (at least if we know from testing which ones have problems). It is also cached to avoid recalculation. But this needs some further explanation.

Another interesting problem here is the interaction between copying using `ClassFieldCopier` and the special classes that are pre-populated in the cache (the `ClassCopier` cache in this case). The problem here is that these `ClassCopiers` only work (generally) if they construct the result. In the case of a class A (say `CustomHashMap`) derived from B (say `HashMap`), A is not in the cache, so we just use the Ordinary copier, and analyze the `CustomHashMap` class in order to create a `ClassFieldCopier`. The analysis will then look for a copier for B. However, this must result in using a `ClassFieldCopier` (which is NOT a `ClassCopier`, because it does not create the result, which in this case has already been created). Since B is copied specially, this is at best inconsistent. So, we must not reflectively copy class B in this situation.

We also need to keep in mind that some classes simply cannot be copied by reflection (e.g. `IdentityHashMap`). The only way to recognize such classes is that they define both `readObject` and `writeObject`. But many classes that can be reflectively copied also define both `readObject` and `writeObject` (such as `ArrayList`). So, we will define two additional mechanisms:

1. An exclude list that defines custom marshalled classes that can be reflectively copied.
2. Special `ClassCopiers` for some special classes. This is achieved simply by initializing the cache with the special copiers.

This leads to different choices depending on whether the JDK supports the unsafe `ClassFieldCopier` or not:

1. JDK supports unsafe: here we can just avoid registering special handlers for things like `HashMap` and `Hashtable`, as they can be copied just fine (non-static finals, non-serializable classes are copied). However, the special copiers MAY (unknown at present) be faster in the common cases. In any case, this choice gives broader coverage, and can correctly handle `Properties`.
2. JDK does not support unsafe (meaning the VM crashes with the `ClassFieldCopier` code): Here we must register special copiers in any case.

Found in path(s):

```
* /opt/cola/permits/1144733458_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/copyobject/impl/Notes2.txt
```

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```

How labels are handled in BCEL and ASM

BCEL:

1. always call `il.append( xxx )` to create the instruction
2. `append` returns an `InstructionHandle`.
3. call `setTarget( InstructionHandler )` on branches.

ASM:

1. Create a Label wherever needed.
2. Use a label wherever needed.
3. Make sure that `visitLabel` is called just before the instruction that needs a label.

How can we create a single abstraction that could work for both?

Two operations:

1. Make sure a label is available at an instruction.
2. Use label in an instruction.

```
interface ByteCodeLabel
```

Found in path(s):

```
* /opt/cola/permits/1144733458_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/label_notes.txt
```

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```

## Method Overload Resolution for codegen

MOR is a rather complex aspect of the Java language. It has gone from complex in Java 1.4 to baroque in Java 5 due to the addition of generics, varargs, and autoboxing. Since codegen is really only intended to support a Java 1.4 level language, we will ignore the newer MOR algorithm.

We should implement most/all of Java 1.4 MOR for codegen. Here are the relevant definitions:

From JLS 5.3

A method invocation conversion is applied to each argument of a method on a method call. method invocation conversion allows:

1. Identity conversion (5.1.1)  
This is what it sounds like: converting a type to itself
2. Widening primitive conversion (5.1.2)  
The following are permitted:  
byte -> short, int, long, float, double  
short -> int, long, float, double  
char -> int, long, float, double  
int -> long, float, double  
long -> float, double  
float -> double
3. Widening reference conversion (5.1.4)  
class S -> class T if S is a subclass of T  
class S -> interface K if S implements K  
null type -> any class, interface, array  
interface J -> interface K if J is a subinterface of K  
interface J -> Object  
array A[] -> Object  
array A[] -> Cloneable  
array A[] -> array B[] if A, B ref types and there is a widening reference conversion from A to B

MOR is defined in 3 steps:

1. (15.12.1) Determine class or interface to search (as adapted for the Wrapper syntax):

Form: MethodName

Expr.identifier: the type to search is the type of Expr

Type.identifier: the type to search is the type named Type

super.identifier: the type to search is the superClass of the current ClassGenerator

this.identifier: the type to search is the class of the current ClassGenerator.

Given a member reference, define the access type as follows:

member access:

StaticFieldAccessExpression x: x.targetType()

NonStaticFieldAccessExpression x: x.targetType()

StaticCallExpression x: x.target()

NonStaticCallExpression x: x.target().type()

SuperCallExpression x: x.getContainingClass().superType()

constructor access:

NewObjExpression x: x.type()

NewArrExpression x: x.cType()

SuperObjExpression x: x.getContainingClass().superType (super( ) in cons)

ThisObjExpression x: x.getContainingClass().thisType() (this( ) in cons)

2. (15.12.2) Determine method signatures

A method declaration is applicable to a method invocation iff:

1. The number of parameters in the declaration equals the number of argument expressions in the method invocation.
2. The type of each actual argument can be converted by method invocation conversion to the type of the corresponding parameter.

The method must also be accessible (6.6) :

1. Public class or interface is always accessible
2. Array type is accessible iff its component type is accessible
3. A member (field or method) of a reference (class, interface, or array) or a constructor of a class type is accessible iff:
  1. The member or constructor is declared public
  2. Otherwise, if declared protected, accessible iff:
    1. The access occurs in the same package as where the member or constructor is declared, OR
    2. Let C be a class declaring protected member m with identifier id.  
Let S be the class containing the reference to m.  
Let K be the accessor type
  3. Otherwise, if declared private, accessible iff accessed from same class.
  4. Otherwise, we have default access, accessible iff accessed from same package.



3. Choose the most specific method

Let  $m$  be a name. Suppose we have  $m$  defined in two places:

$T.m(T_1, \dots, T_n) (\mu)$

$U.m(U_1, \dots, U_n) (m)$

Then  $\mu$  is more specific than  $m$  iff

1.  $T$  can be converted to  $U$  by method invocation conversion
2. For each  $i$ ,  $T_i$  can be converted to  $U_i$  by method invocation conversion

A method is maximally specific if it is applicable and accessible and no other method is more specific.

If there is only one maximally specific method, go to step 3.

Otherwise (we will simplify here and declare this to be ambiguous, ignoring 15.12.2.2 discussion about methods with the same signature).

3. (15.12.3) Is the chosen method appropriate?

(basically static vs. non-static)

1. If we have an invocation  $\text{expr.ident}$  in a static context, this is an error.
2. If we have an invocation  $\text{type.ident}$ , the chosen method must be static, or an error occurs.
3. If the invocation is  $\text{super.ident}$ ,
  - if the method is abstract, error.
  - if the invocation is in a static context, error.
4. If the result type is void, the  $\text{expr}$  must be in a statement context (in codegen)

If the method is appropriate, then the invocation mode is determined as follows:

1. If the method has the static modifier, mode is static (invokestatic).
2. Otherwise, if the method has the private modifier, mode is nonvirtual (invokespecial).
3. Otherwise, if the method invocation is  $\text{super.ident}$ , mode is super (invokespecial).
4. Otherwise, if the method is declared in an interface, mode is interface (invokeinterface).
5. Otherwise, mode is virtual (invokevirtual).

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\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/method\_overload\_resolution.txt

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\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/generator/Value.java

\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/generator/Factory.java

\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/generator/Delegate.java

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#

Obsolete idea:

Replace `_sourceCode` and `_ByteCode` with a single `_generate` method.

Idea: we usually want to end up with a class loaded in a `ClassLoader` somewhere. But there are a variety of ways to do this.

Options:

1. Generate: source, class, or both
2. generate debug or not (locals and line numbers)

3. compile source to generate bytecode
4. generate bytecode directly
5. If compiling source:
  - classpath (defaults to current VM classpath)
  - output dir
  - source dir

Encoding as properties and method:

```
_generate( Properties )  
// Use ORBClassLoader as default (util for context CL or system CL)  
_generate( Properties, ClassLoader )  
// Use PD of specified ClassLoader?  
_generate( Properties, ClassLoader, ProtectionDomain ) // Do we need this?
```

Props (All have com.sun.corba.codegen prefix):

Generation: direct, direct\_with\_source, javac (default javac for now)

SourceOutputDirectory: <directory name> (default cwd)

ClassOutputDirectory: <directory name> (default cwd)

ClassPath: <classpath in platform encoding> (default classpath of current VM)

Debug: on, off (default on)

Creating a default temporary directory

File defines a temp file facility, but this is only for files.

I think we want a similar directory mechanism.

We can do this as follows:

1. Use the system property java.io.tmpdir
2. create an instance of java.rmi.server.UID.
3. Stringify the UID, which looks something like:

```
-1cad2ab7:102d8b6f383:-8000
```

or

```
e4b375b:102d8b81237:-8000
```

4. Create the directory /tmp/d\_<UID> and use that for all file generation.
5. Create /tmp/d\_<UID>/src and /tmp/d\_<UID>/classes for generated source and class files.

Should we provide an API for compiling source code?

I think not. There are ways to do this already, and we just provide a PrintStream for generating the source.

Extending the API for modifying classes.

Class, Method, Local var

ClassInfo contains mostly the correct info.  
Just need to make it modifiable in the case of the  
interceptor. Could change:

- modifiers
- name
- superClass
- impls

Through the ClassGenerator API:

- add fields
- add methods
- add constructors
- extend initializer
- rename existing method
- intercept field access
- intercept method call

What this really says is just add setters to the API.

How does this actually work?

new CodeGenerator()

set interceptors

byte[] modifyClass( byte[] cls )

Use ClassReader to read cls with a modifier visitor  
modifier visitor:

visitClass:

- Construct a ClassGenerator corresponding to cls
- invoke class interceptor with ClassGenerator

visitMethod:

- This will need to be multi-pass
- Can change name, exceptions only
- first pass:
  - record all visit calls to be replayed
  - initialize slotAllocator to include all current  
local variables as determined from visitLocalVariable  
calls.
  - can modify GETFIELD, PUTFIELD instructions through  
visitFieldInsn
  - can add local variables

What about JavaDoc and Annotations?

TODO:

1. Method overload resolution

PARTIAL algorithm implemented that uses simple first match.

2. More testing
3. Byte code generation for:
  - switch statement
  - add break
  - operators in expressions
  - cast, instanceof
  - static field access
  - array index
4. Upgrade to latest ASM (probably wait until after ASM 3.0 goes FCS).
5. Remove use of JSR/RET.
6. Revise API into:
  - spi.codegen: as is.
  - spi.codegen.tree: move AST here, allow for construction of specialized visitors
  - impl.codegen: source code visitor (in main branch)
  - impl.codegen: byte code visitor (in optional branch)
 May also want to split up Wrapper to make more extensible.
7. Add support for re-opening \_initializer().
8. Implement "dangling expression" handler.
 

I think this (now) means detect expressions that have never been copied. We actually need to modify NodeBase.copy to simply count the number of times copy is called. We also need to keep a list in the ExpressionFactory of all expressions created. Then when a block is ended, check that all expressions created have been copied, which means they have been used somewhere. We also need to check when an Expression is used that it was created by the correct ExpressionFactory, or else we have an error (I don't want expression hanging around between different blocks).
9. Implement short-circuit evaluation of boolean operators.
 

Note: consider implementing ternary if expression:  
 $A \ \&\& \ B$  is equivalent to  $A \ ? \ B \ : \ \text{false}$   
 $A \ || \ B$  is equivalent to  $A \ ? \ \text{true} \ : \ B$

then add an `_ifExpr( Expression cond, Expression truePart, Expression falsePart )` to Wrapper et al. Could then replace `&&` and `||` directly in Wrapper with `_ifExpr`.

Can we use `IfStatement` to implement this?  
 We can simple change `IfStatement` from

class `IfStatement` extends `StatementBase`

to

class `IfStatement` extends `ExpressionFactory.ExpressionBase` implements `Statement`

and `IfStatement` becomes an expression. The visitors would probably need some adjustment, plus we need to deal with having a `Node` that is both a `Statement` and an `Expression` (or perhaps eliminate a separate if statement?).

But this does not really work: consider

IfStatement ( Expression cond, Statement truePart, Statement falsePart )

and

IfExpression ( Expression cond, Expression truePart, Expression falsePart )

Also note that the stack is a bit different: at the end, and IfExpression leaves a value on the stack. In any case, we just duplicate the simple logic of IfStatement for IfExpression in ASMByteCodeVisitor. But again, I don't think this matters.

This COULD work, if we decided to make every Statement an Expression, some of which return void. But this is not very Java-like, and would imply changing the current statement = void \_xxx call/expression = \_xxx call returning Expression design.

10. Convert codegen test suite to TestNG.
11. Consider adding some form of enhanced for loop.
12. Make sure that we check that first statement in constructor is this or super.
13. Finish CodegenProxyCreator and replace BCEL with it.
- DONE 14. Reduce/eliminate use of \_v, \_t. Changes to Wrapper method return types:

Type \_import  
Expression \_data  
Variable \_arg  
Variable \_catch  
Variable \_define

Note that this will cause Expressions to be reused.  
This means that expression need to be copied (very carefully).  
This is done in NodeBase using the @Copy extensions applied to NodeBase (attributes, parent, and delegate).  
This also required a modification in ASMSetupVisitor: make sure that requiredEmitterType is correctly set on ALL Variable nodes.  
This was not done correctly in the original: it relied on setting the value of requiredEmitterType to GETTER inside BlockStatement.splitVariables.

**NOTE: THAT IS A VERY BAD IDEA!**

One of the design principles of this library is that the construction of the AST is totally separated from its use. So any of the attributes needed by ASMSetupVisitor and ASMByteCodeVisitor should only be set up in those visitors. BlockStatement.splitVariables was a general piece of code used in a specific way to support a particular visitor. **BAD DESIGN!**

15. Modify IDLNameTranslator to use ClassInfo instead of Class, and MethodInfo instead of Method.

This requires some other changes:

- StubInvocationHandlerImpl takes a method as an argument. We need to get a MethodInfo object from the Method, and use that in the call to IDLNameTranslator to get the giopMethodName. We also need to base DynamicMethodMarshaller on MethodInfo instead of Method.
- Similarly, ReflectiveTie.\_invoke gets a Method from the operation name. Here we actually need a real method (but not for DMM) for the invoke call.

Plan:

- IDLNameTranslator uses ClassInfo and MethodInfo.
- MethodInfo provides access to Method IF the MethodInfo was derived from a Method.
- DMM only uses MethodInfo.

This then allows rmic -iiop to directly use IDLNameTranslator to generate the appropriate names in the Stubs and Ties.

#### 16. Ways to generate ClassInfo:

1. From java.lang.Class
2. From codegen ClassGenerator
3. From Doclet (see com.sun.javadoc)

probably want to create a FieldInfo that has implementation that reflect java.lang.reflect.Field, impl.codegen.Field, and com.sun.javadoc.FieldDoc (similarly use MethodDoc and ClassDoc). (FieldInfo is in place now).

Note how closely this relates to Gilad's mirrors paper.

#### 17. Move BCEL optimized reflective object copier to codegen

- continue optimization work
- investigate transforming ClassLoader that adds useful bits to class for copying (precursor to fast marshalling)

Other features:

#### 18. Line number generation and debugging support.

#### 23. Add line number generation and verify correct line numbers.

Modify sourceStatementVisitor to annotate the AST with line number info while generating a source file, then modify the ASM visitor to generate the appropriate information.

Also need to generate local variable tables.

How do we verify line numbers? By using ASM visitor on class file?

#### 24. Tests for error handling:

1. Detect dangling expressions, multiple expression use

2. Check that concrete base classes have constructors
3. check that every constructor starts with this or super
4. Check that all referenced types exist
5. Check that all type and variable names are not reserved words.
25. Consider extending model to support simultaneous generation of more than one class (needed for mutual recursive reference between classes).
26. Consider extending AST for manipulation/modification of existing classes (initial generation -> continual modification)
27. Consider integration with java.lang.Instrument facilities.
28. Add Javadoc support: `_javadoc( String... )`
29. Support static import
30. Annotation support?

Found in path(s):

```
* /opt/cola/permits/1144733458_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/spi/notes.txt
```

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```

Note on improving the reflective copy object architecture.

Basic abstractions:

```
/** Creates an instance of an ObjectCopier to be used for a single session.
*/
```

```
ObjectCopierFactory {
    ObjectCopier make() ;
}
```

```
/** Used to copy objects in a single session: multiple calls to the
* same ObjectCopier instance will share all aliases.
```

```
ObjectCopier {
    Object copy( Object obj ) throws ReflectiveCopyException ;
}
```

-----  
Reflective case:



```

/** Used to copy an Object of a particular type. Preserves aliasing through
 * oldToNew.
 */
interface ClassCopier {
    Object copy( IdentityHashMap oldToNew, Object source ) throws ReflectiveCopyException ;
}

/** Create a ClassCopier for a particular type.
 */
ClassCopierFactory {
    ClassCopier get( Class cls ) throws ReflectiveCopyException ;
}

```

Use filter pattern: use a chain of ClassCopierFactory instances, take first non-null result.

Special ClassCopier instances:

```

DefaultClassCopiers
ClassCopier makeMapCopier( ClassCopierFactory ccf )
ClassCopier getIdentityCopier()
ClassCopier getErrorCopier()

```

ClassCopierFactory instances:

- A client may create a special ClassCopierFactory with arbitrary behavior.
- An ArrayClassCopierFactory that returns a ClassCopier for an array, and null for non-array
- A OrdinaryClassCopierFactory that returns a ClassCopier for any Class, and throws ReflectiveCopyException if it cannot create a ClassCopier.
- An ImmutableClassCopierFactory that returns an IdentityClassCopier if the class is immutable (also has registration API).
- A CachingClassCopierFactory that maintains a cache of know ClassCopier instances for particular classes (also has a registration API).
- PipelineCopierFactory:
  - Does Caching -> Special (may be no-op) -> Array -> Ordinary
  - Updates cache if needed
  - Provides API for:
    - registration of know ClassCopier instances
    - registration of immutable classes (go straight to cache)
    - registration of optional special ClassCopierFactory
- passes itself to Array and Ordinary ClassCopierFactory instances

DefaultClassCopierFactories:

```

ClassCopierFactory makeCachingClassCopierFactory()
ClassCopierFactory makeArrayClassCopierFactory( ClassCopierFactory )
ClassCopierFactory makeOrdinaryClassCopierFactory( ClassCopierFactory )

```

Found in path(s):

```

* /opt/cola/permits/1144733458_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-

```

jar/org/glassfish/pfl/dynamic/copyobject/impl/Notes.txt

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#
```

Codegen provides reflective information about classes, much as the ordinary Class and Method classes in Java.

We need (at least) the following cases:

1. ClassGenerator and MethodGenerator provide info about classes and methods that are being generated in the framework. These must also be AST nodes.
2. ClassInfoReflectiveImpl and MethodInfoReflectiveImpl provides info about Java Class and Method instances that are already loaded in the VM. They should not be AST nodes.
3. We will also need ClassInfo and MethodInfo implementations that handle the Doclet classes. This is needed for supporting dynamic RMI-IIOP. They should not be AST nodes.
4. ClassInfo and MethodInfo may need some way to access the underlying Java Class and Method instances, when they exist. This may also be needed for dynamic RMI-IIOP

Here is the inheritance structure of the implementation:

ClassInfo (interface)

ClassInfoBase (abstract class)

ClassInfoReflectiveImpl

- Just uses Java reflection on a Class instance.

ClassInfoDocletImpl

- Just uses the Doclet API to implement ClassInfo

ClassGenerator

- also implements Node

- uses delegation to an instance of NodeBase to implement the Node API.

MethodInfo (interface)

MethodInfoBase (abstract class)

MethodInfoReflectiveImpl

- Just uses Java reflection on a Method instance.

- really just initialization: the API is implemented in the super class.

## MethodInfoDocletImpl

- Just uses the Doclet API to implement MethodInfo

## MethodGenerator

- also implements Node
- uses delegation to an instance of NodeBase to implement the Node API.

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\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-jar/org/glassfish/pfl/dynamic/codegen/impl/notes\_on\_info\_support.txt

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#

For now, we are leaving codegen in optional, so we can leave copyobject there as well.

Split impl.copyobject.JavaStreamObjectCopierImpl into two parts:

impl.copyobject.JavaStreamObjectCopierImpl, which does NOT do the autoconnect

impl.copyobject.JavaStreamORBObjectCopierImpl, which subclasses

JavaStreamObjectCopierImpl and DOES the autoconnect.

New packaging:

spi/copyobject ORB

spi.copyobject.CopierManager

spi.copyobject.CopyobjectDefaults

spi/orbutil/copyobject LIB

spi.copyobject.ObjectCopier

spi.copyobject.ObjectCopierFactory

spi.copyobject.ReflectiveCopyException

impl/copyobject ORB

impl.copyobject.CopierManagerImpl

impl.copyobject.JavaStreamORBObjectCopierImpl

impl.copyobject.ORBStreamObjectCopierImpl

impl.copyobject.ReferenceObjectCopierImpl

impl/orbutil/copyobject LIB

impl.copyobject.JavaStreamObjectCopierImpl

impl.copyobject.FallbackObjectCopierImpl

optional spi/copyobject ORB  
optional spi.copyobject.OptimizedCopyObjectDefaults  
optional spi/orbutil/copyobject LIB  
new: ObjectCopierFactoryImpl (like ReflectiveObjectCopierImpl, but does not  
do ORB-specific copying)

optional impl/copyobject ORB  
optional impl.copyobject.newreflect.ReflectObjectCopierImpl  
optional impl.copyobject.OldReflectObjectCopierImpl  
optional impl/orbutil/copyobject LIB  
optional impl.copyobject.newreflect.BCELCopierBase => move to codegen  
optional impl.copyobject.newreflect.BCELCopierGenerator => move to codegen  
optional impl.copyobject.newreflect.CachingClassCopierFactory  
optional impl.copyobject.newreflect.ClassCopier  
optional impl.copyobject.newreflect.ClassCopierBase  
optional impl.copyobject.newreflect.ClassCopierFactory  
optional impl.copyobject.newreflect.ClassCopierFactoryArrayImpl  
optional impl.copyobject.newreflect.ClassCopierFactoryPipelineImpl  
optional impl.copyobject.newreflect.ClassCopierOrdinaryImpl  
optional impl.copyobject.newreflect.DefaultClassCopierFactories  
optional impl.copyobject.newreflect.DefaultClassCopiers  
optional impl.copyobject.newreflect.FastCache  
optional impl.copyobject.newreflect.FastCacheTest  
optional impl.copyobject.newreflect.PipelineClassCopierFactory

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\* /opt/cola/permits/1144733458\_1616570378.57/0/pfl-dynamic-4-0-1-sources-1-  
jar/org/glassfish/pfl/dynamic/copyobject/impl/notes\_on\_library\_packaging.txt

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Jetty may be distributed under either license.

-----  
Eclipse

The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.  
\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl



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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

## Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

## Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

# 1.383 miglayout 3.5.5

## 1.383.1 Available under license :

BSD

<http://www.debian.org/misc/bsd.license>

# 1.384 hk2-locator 2.5.0

## 1.385 sqlite 3.6.20

### 1.385.1 Available under license :

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May you do good and not evil.  
May you find forgiveness for yourself and forgive others.  
May you share freely, never taking more than you give.

## 1.386 stax 3.2.7

### 1.386.1 Available under license :

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sources-3-2-7-jar/com/ctc/wstx/sw/BaseNsStreamWriter.java
* /opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-
sources-3-2-7-jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
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- \* /opt/cola/permits/1162632027\_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-sources-3-2-7-jar/com/ctc/wstx/sr/NsDefaultProvider.java
- \* /opt/cola/permits/1162632027\_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-sources-3-2-7-jar/com/ctc/wstx/dtd/DTDEventListener.java
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- \* /opt/cola/permits/1162632027\_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-sources-3-2-7-jar/com/ctc/wstx/dtd/FullDTDReader.java
- \* /opt/cola/permits/1162632027\_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-sources-3-2-7-jar/com/ctc/wstx/dtd/DTDTypingNonValidator.java
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- \* /opt/cola/permits/1162632027\_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-sources-3-2-7-jar/com/ctc/wstx/dtd/MinimalDTDReader.java
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\*/

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\* /opt/cola/permits/1162632027\_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-sources-3-2-7-jar/com/ctc/wstx/sw/SimpleOutputElement.java

\* /opt/cola/permits/1162632027\_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-sources-3-2-7-jar/com/ctc/wstx/util/BijectiveNsMap.java

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```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-
sources-3-2-7-jar/org/codehaus/stax2/ri/Stax2WriterAdapter.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-
sources-3-2-7-jar/com/ctc/wstx/sax/WrappedSaxException.java
* /opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-
sources-3-2-7-jar/com/ctc/wstx/sax/SAXFeature.java
* /opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-
sources-3-2-7-jar/com/ctc/wstx/sax/WstxSAXParser.java
* /opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-
sources-3-2-7-jar/com/ctc/wstx/sax/WstxSAXParserFactory.java
* /opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-
sources-3-2-7-jar/com/ctc/wstx/sax/SAXProperty.java
```



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```
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```

Found in path(s):

```
*/opt/cola/permits/1162632027_1634745319.97/0/wstx-sources-3-2-7-jar-zip/com-springsource-com-ctc-wstx-  
sources-3-2-7-jar/org/codehaus/stax2/XMLStreamReader2.java
```

# 1.387 eclipse-osgi 3.6.1.R36x\_v20100806

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# 1.388 async-http-jbossweb 2.3.4.Final

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## 1.391 jaxb-api 2.2.11

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## 1.393 mchange-commons-java 0.2.11

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# 1.396 jetty-http 9.4.16.v20190411

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.397 webapp-runner-main 8.5.15.1

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 */
```

Found in path(s):

\* /opt/cola/permits/1257282536\_1642795716.52/0/webapp-runner-main-8-5-15-1-sources-jar/webapp/runner/launch/Main.java

# 1.398 resteasy-jsapi 2.3.4.Final

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jar/com/zaxxer/hikari/pool/HikariMBeanElf.java  
\* /opt/cola/permits/189457402\_1651176781.75/0/hikaricp-java6-2-3-13-sources-  
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\* /opt/cola/permits/189457402\_1651176781.75/0/hikaricp-java6-2-3-13-sources-  
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jar/com/zaxxer/hikari/proxy/ClosedConnection.java  
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jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java  
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jar/com/zaxxer/hikari/HikariConfigMXBean.java  
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jar/com/zaxxer/hikari/util/PropertyBeanSetter.java  
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- \* /opt/cola/permits/189457402\_1651176781.75/0/hikaricp-java6-2-3-13-sources-jar/com/zaxxer/hikari/pool/BaseHikariPool.java
- \* /opt/cola/permits/189457402\_1651176781.75/0/hikaricp-java6-2-3-13-sources-jar/com/zaxxer/hikari/HikariJNDIFactory.java

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\* /opt/cola/permits/189457402\_1651176781.75/0/hikaricp-java6-2-3-13-sources-jar/com/zaxxer/hikari/util/DefaultThreadFactory.java  
\* /opt/cola/permits/189457402\_1651176781.75/0/hikaricp-java6-2-3-13-sources-jar/com/zaxxer/hikari/proxy/HHikariConnectionProxy.java  
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\* /opt/cola/permits/1000966816\_1607498231.08/0/aopalliance-repackaged-2-4-0-b31-sources-jar/pom.xml

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\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/AllocationMeasure.java

\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/UnsafeMemory.java

\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/values/IntValue.java

\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/ShortConsumer.java

\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/ObjFloatConsumer.java

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\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/annotation/UsedViaReflection.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/Time.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/values/LongArrayValues.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/ThrowingBiConsumer.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/io/Closeable.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/pool/StringInterner.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/FloatConsumer.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/ObjByteConsumer.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/io/IORuntimeException.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/CharToBooleanFunction.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/SerializableBiFunction.java  
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\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/ThrowingTriFunction.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/values/CharValue.java  
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\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/SerializableConsumer.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/ByteConsumer.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/util/NanoSampler.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/Maths.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-jar/net/openhft/chronicle/core/io/IOTools.java

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\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
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jar/net/openhft/chronicle/core/cleaner/impl/reflect/ReflectionBasedByteBufferCleanerService.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
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\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
jar/net/openhft/chronicle/core/threads/MonitorProfileAnalyserMain.java  
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jar/net/openhft/chronicle/core/watcher/FileClassifier.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-

jar/net/openhft/chronicle/core/annotation/TargetMajorVersion.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
jar/net/openhft/chronicle/core/StackTrace.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
jar/net/openhft/chronicle/core/watcher/FileSystemWatcher.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
jar/net/openhft/chronicle/core/cooler/CpuCooler.java  
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jar/net/openhft/chronicle/core/Jvm.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
jar/net/openhft/chronicle/core/annotation/Java9.java  
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jar/net/openhft/chronicle/core/io/Resettable.java  
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jar/net/openhft/chronicle/core/annotation/DontChain.java  
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jar/net/openhft/chronicle/core/cleaner/CleanerServiceLocator.java  
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jar/net/openhft/chronicle/core/util/ThrowingCallable.java  
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\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-  
jar/net/openhft/chronicle/core/util/ThrowingRunnable.java  
\* /opt/cola/permits/1184885808\_1627645165.02/0/chronicle-core-2-20-122-sources-

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jar/net/openhft/chronicle/core/time/VanillaDifferencer.java
* /opt/cola/permits/1184885808_1627645165.02/0/chronicle-core-2-20-122-sources-
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* /opt/cola/permits/1184885808_1627645165.02/0/chronicle-core-2-20-122-sources-
jar/net/openhft/chronicle/core/onoes/Google.properties
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Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.415 tomcat-i18n-zh-cn 9.0.58

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## 1.416 maven-artifact 3.6.0

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```
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/MethodMonitorBase.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/TimerFactoryBuilder.java  
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jar/org/glassfish/pfl/tf/timer/spi/StatisticsAccumulator.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/TimerPointSourceGenerator.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/EnhancedClassDataBase.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/EnhancedClassDataASMImp.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/annotation/Description.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/Controllable.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/spi/Named.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/annotation/MethodMonitorGroup.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/MethodMonitorFactoryDefaults.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/Statistics.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/NamedBase.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/Timer.java  
* /opt/cola/permits/1144734079_1616570424.26/0/pfl-tf-4-0-1-sources-1-
```

jar/org/glassfish/pfl/tf/timer/spi/TimerEvent.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/StatsEventHandler.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/StatsEventHandlerBase.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/EnhancedClassData.java  
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jar/org/glassfish/pfl/tf/timer/impl/TimerFactoryImpl.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/Named.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/ObjectRegistrationManagerNOImpl.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/TimerFactory.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/annotation/TraceEnhanceLevel.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/MethodMonitor.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/MethodMonitorRegistry.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/spi/TimerGroup.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/spi/Util.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/MultiThreadedStatsEventHandlerImpl.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/TraceEnhancementException.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/StatsEventHandlerImpl.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/VersionedHashSet.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/MethodMonitorFactory.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/ControllableBase.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/EnhancedClassDataReflectiveImpl.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/NamedBaseImpl.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/spi/annotation/TFEnhanced.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/TimerGroupImpl.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-  
jar/org/glassfish/pfl/tf/timer/impl/LogEventHandlerImpl.java

\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/spi/TimerManager.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/spi/TimingInfoProcessor.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/spi/TimerEventHandler.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/spi/TimingPointType.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/spi/annotation/InfoMethod.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/spi/TimerEventControllerBase.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/spi/ObjectRegistrationManager.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/spi/TimerEventController.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/spi/MethodMonitorFactoryBase.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/impl/LogEventHandlerIterator.java  
\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/org/glassfish/pfl/tf/timer/spi/LogEventHandler.java

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Found in path(s):

\* /opt/cola/permits/1144734079\_1616570424.26/0/pfl-tf-4-0-1-sources-1-jar/pom.xml

## 1.418 xerces-j 2.11.0

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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate \"Unique Particle Attribution\".

Found in path(s):

\* /opt/cola/permits/1124833062\_1611183141.82/0/xercesimpl-zip/xercesimpl-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties

# 1.419 apt-jelly-core 2.15

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# 1.420 jetty-continuation 9.4.28.v20200408

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- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay



The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.421 icu 48

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## 1.422 snappy-java 1.1.2.6

## 1.423 commons-codec 1.9

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`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`  
contains test data from <http://aspell.net/test/orig/batch0.tab>.  
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## 1.424 maven-builder-support 3.6.0

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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# 1.426 xml-apis 2.0.2

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```
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/**
 * Base class for deriving an XML filter.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class is designed to sit between an { @link org.xml.sax.XMLReader
 * XMLReader} and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLFilterImpl.java
```

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```
/**
 * Basic interface for SAX error handlers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>If a SAX application needs to implement customized error
```

```

* handling, it must implement this interface and then register an
* instance with the XML reader using the
* { @link org.xml.sax.XMLReader#setErrorHandler setErrorHandler}
* method. The parser will then report all errors and warnings
* through this interface.</p>
*
* <p><strong>WARNING:</strong> If an application does <em>not</em>
* register an ErrorHandler, XML parsing errors will go unreported
* and bizarre behaviour may result.</p>
*
* <p>For XML processing errors, a SAX driver must use this interface
* instead of throwing an exception: it is up to the application
* to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to provide useful information after a call to
* { @link #fatalError fatalError} (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setErrorHandler
* @see org.xml.sax.SAXParseException
*/

```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java
```

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```
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```

```
/**
```

```
* Interface for a list of XML attributes.
```

```
*
```

```
* <blockquote>
```

```
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```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>This interface allows access to a list of attributes in
```

```
* three different ways:</p>
```

```
*
```

```
* <ol>
```

```
* <li>by attribute index;</li>
```

```
* <li>by Namespace-qualified name; or</li>
```

```
* <li>by qualified (prefixed) name.</li>
```

```
* </ol>
```

```
*
```

\* <p>The list will not contain attributes that were declared  
 \* #IMPLIED but not specified in the start tag. It will also not  
 \* contain attributes used as Namespace declarations (xmlns\*) unless  
 \* the <code>http://xml.org/sax/features/namespace-prefixes</code>  
 \* feature is set to <var>true</var> (it is <var>false</var> by  
 \* default).</p>

\*  
 \* <p>If the namespace-prefixes feature (see above) is <var>false</var>,  
 \* access by qualified name may not be available; if the  
 \* <code>http://xml.org/sax/features/namespaces</code>  
 \* feature is <var>false</var>, access by Namespace-qualified names  
 \* may not be available.</p>

\*  
 \* <p>This interface replaces the now-deprecated SAX1 { @link  
 \* org.xml.sax.AttributeList AttributeList } interface, which does not  
 \* contain Namespace support. In addition to Namespace support, it  
 \* adds the <var>getIndex</var> methods (below).</p>

\*  
 \* <p>The order of attributes in the list is unspecified, and will  
 \* vary from implementation to implementation.</p>

\*  
 \* @since SAX 2.0  
 \* @author David Megginson,  
 \* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
 \* @version 2.0  
 \* @see org.xml.sax.helpers.AttributeListImpl  
 \*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Attributes.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* Default implementation for AttributeList.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>AttributeList implements the deprecated SAX1 { @link

\* org.xml.sax.AttributeList AttributeList } interface, and has been

\* replaced by the new SAX2 { @link org.xml.sax.helpers.AttributesImpl

\* AttributesImpl } interface.</p>

\*

\* <p>This class provides a convenience implementation of the SAX

\* { @link org.xml.sax.AttributeList AttributeList } interface. This

\* implementation is useful both for SAX parser writers, who can use



```

* it to provide attributes to the application, and for SAX application
* writers, who can use it to create a persistent copy of an element's
* attribute specifications:</p>
*
* <pre>
* private AttributeList myatts;
*
* public void startElement (String name, AttributeList atts)
* {
*     // create a persistent copy of the attribute list
*     // for use outside this method
*     myatts = new AttributeListImpl(atts);
*     [...]
* }
* </pre>
*
* <p>Please note that SAX parsers are not required to use this
* class to provide an implementation of AttributeList; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>
*
* @deprecated This class implements a deprecated interface,
*     { @link org.xml.sax.AttributeList AttributeList};
*     that interface has been replaced by
*     { @link org.xml.sax.Attributes Attributes},
*     which is implemented in the
*     { @link org.xml.sax.helpers.AttributesImpl
*     AttributesImpl} helper class.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributeListImpl.java

```

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// NO WARRANTY! This class is in the Public Domain.

/\*\*

\* Interface for an XML filter.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>An XML filter is like an XML reader, except that it obtains its
* events from another XML reader rather than a primary source like
* an XML document or database. Filters can modify a stream of
* events as they pass on to the final application.</p>
*
* <p>The XMLFilterImpl helper class provides a convenient base
* for creating SAX2 filters, by passing on all { @link org.xml.sax.EntityResolver
* EntityResolver}, { @link org.xml.sax.DTDHandler DTDHandler},
* { @link org.xml.sax.ContentHandler ContentHandler} and { @link org.xml.sax.ErrorHandler
* ErrorHandler} events automatically.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.XMLFilterImpl
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLFilter.java
No license file was found, but licenses were detected in source scan.

```

```

/**

```

```

* Interface for associating a SAX event with a document location.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>If a SAX parser provides location information to the SAX
* application, it does so by implementing this interface and then
* passing an instance to the application using the content
* handler's { @link org.xml.sax.ContentHandler#setDocumentLocator
* setDocumentLocator} method. The application can use the
* object to obtain the location of any other content handler event
* in the XML source document.</p>
*
* <p>Note that the results returned by the object will be valid only
* during the scope of each content handler method: the application
* will receive unpredictable results if it attempts to use the
* locator at any other time.</p>
*
* <p>SAX parsers are not required to supply a locator, but they are
* very strongly encouraged to do so. If the parser supplies a

```

\* locator, it must do so before reporting any other document events.  
 \* If no locator has been set by the time the application receives  
 \* the { @link org.xml.sax.ContentHandler#startDocument startDocument }  
 \* event, the application should assume that a locator is not  
 \* available.</p>  
 \*  
 \* @since SAX 1.0  
 \* @author David Megginson,  
 \* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
 \* @version 2.0  
 \* @see org.xml.sax.ContentHandler#setDocumentLocator  
 \*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Locator.java

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/\*\*

\* Receive notification of basic DTD-related events.  
 \*  
 \* <blockquote>  
 \* <em>This module, both source code and documentation, is in the  
 \* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>  
 \* </blockquote>  
 \*  
 \* <p>If a SAX application needs information about notations and  
 \* unparsed entities, then the application implements this  
 \* interface and registers an instance with the SAX parser using  
 \* the parser's setDTDHandler method. The parser uses the  
 \* instance to report notation and unparsed entity declarations to  
 \* the application.</p>  
 \*  
 \* <p>Note that this interface includes only those DTD events that  
 \* the XML recommendation <em>requires</em> processors to report:  
 \* notation and unparsed entity declarations.</p>  
 \*  
 \* <p>The SAX parser may report these events in any order, regardless  
 \* of the order in which the notations and unparsed entities were  
 \* declared; however, all DTD events must be reported after the  
 \* document handler's startDocument event, and before the first  
 \* startElement event.</p>  
 \*  
 \* <p>It is up to the application to store the information for  
 \* future use (perhaps in a hash table or object tree).  
 \* If the application encounters attributes of type "NOTATION",  
 \* "ENTITY", or "ENTITIES", it can use the information that it  
 \* obtained through this interface to find the entity and/or  
 \* notation corresponding with the attribute value.</p>

\*  
\* @since SAX 1.0  
\* @author David Megginson,  
\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
\* @version 2.0  
\* @see org.xml.sax.Parser#setDTDHandler  
\* @see org.xml.sax.HandlerBase  
\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java

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\* Foundation, please see <http://www.apache.org/>.

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/ConvertToURI.java

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/\*\*

\* Default base class for handlers.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the  
\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This class implements the default behaviour for four SAX1  
\* interfaces: EntityResolver, DTDHandler, DocumentHandler,  
\* and ErrorHandler. It is now obsolete, but is included in SAX2 to  
\* support legacy SAX1 applications. SAX2 applications should use  
\* the { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }  
\* class instead.</p>

\*

\* <p>Application writers can extend this class when they need to  
\* implement only part of an interface; parser writers can  
\* instantiate this class to provide default handlers when the  
\* application has not supplied its own.</p>

\*

\* <p>Note that the use of this class is optional.</p>

\*

```
* @deprecated This class works with the deprecated
*     { @link org.xml.sax.DocumentHandler DocumentHandler }
*     interface. It has been replaced by the SAX2
*     { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }
*     class.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/HandlerBase.java
No license file was found, but licenses were detected in source scan.
```

```
/*
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* Recherche en Informatique et en Automatique, Keio University). All
* Rights Reserved. This program is distributed under the W3C's Software
* Intellectual Property License. This program is distributed in the
* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE.
* See W3C License http://www.w3.org/Consortium/Legal/ for more details.
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMBuilderFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMInputSource.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DocumentLS.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathNSResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathResult.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathExpression.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMWriter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathNamespace.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMEntityResolver.java
```

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/LSLoadEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/LSProgressEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/ParseErrorEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMWriterFilter.java
```

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```
/*
```

```
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* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
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* PURPOSE.
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```

```
*/
```

```
/**
```

```
* <strong>DOM Level 3 WD Experimental:
* The DOM Level 3 specification is at the stage
* of Working Draft, which represents work in
* progress and thus may be updated, replaced,
* or obsoleted by other documents at any time.</strong> <p>
* <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
* expressions with no specialized extension functions or variables. It is
* expected that the <code>XPathEvaluator</code> interface will be
* implemented on the same object which implements the <code>Document</code>
* interface in an implementation which supports the XPath DOM module.
* <code>XPathEvaluator</code> implementations may be available from other
* sources that may provide support for special extension functions or
* variables which are not defined in this specification. The methods of
* XPathExpression should be named with more-XPath- specific names because
* the interface will often be implemented by the same object which
* implements document.No change.The point of interfaces is to localize the
* implementing namespace. This would make the method names unnecessarily
* long and complex even though there are no conflicts in the interface
* itself. The new core method getInterface is designed for discovering
* interfaces of additional modules that may not be directly implemented on
* the objects to which they are attached. This could be used to implement
* XPath on a separate object. The user only refers to the separate
* interfaces and not the proprietary aggregate implementation.Should entity
* refs be supported so that queries can be made on them?No change.We will
```

\* not do this now. They are not part of the XPath data model. Note that

\* they may be present in the hierarchy of returned nodes, but may not

\* directly be requested or returned in the node set. What does createResult

\* create when one wants to reuse the XPath? It is not useful. Removed method.

\* Should ordering be a separate flag, or a type of result that can be

\* requested. As a type of result, it can be better optimized in

\* implementations. It makes sense as a type of result. Changed. Removed

\* method. Implementing XPathEvaluator on Document can be a problem due to

\* conflicts in the names of the methods. The working group finds no better

\* solution. GetInterface in Level 3 permits the object to be implemented

\* separately. We should be committed to this. We will leave this issue open

\* to see if we get more feedback on it. How does this interface adapt to

\* XPath 2.0 and other query languages. No change. This interface is not

\* intended to adapt to XPath 2.0 or other languages. The models of these

\* are likely to be incompatible enough to require new APIs. For alternate

\* implementations that can use this API, it can be obtained from different

\* sources. Support for custom variables and functions would be very useful.

\* No change. It is possible for an implementation to supply alternative

\* sources of an XPathEvaluator that can be customized with a custom

\* variable and function context. We do not specify how this is

\* accomplished. It is too complex to address in this version of the XPath

\* DOM.

\* <p>See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object

Model (DOM) Level 3 XPath Specification</a>.

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathEvaluator.java

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/\*\*

\* Interface for an element's attribute specifications.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This is the original SAX1 interface for reporting an element's

\* attributes. Unlike the new { @link org.xml.sax.Attributes Attributes }

\* interface, it does not support Namespace-related information.</p>

\*

\* <p>When an attribute list is supplied as part of a

\* { @link org.xml.sax.DocumentHandler#startElement startElement }

\* event, the list will return valid results only during the

\* scope of the event; once the event handler returns control

\* to the parser, the attribute list is invalid. To save a



```

* persistent copy of the attribute list, use the SAX1
* { @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
* helper class.</p>
*
* <p>An attribute list includes only attributes that have been
* specified or defaulted: #IMPLIED attributes will not be included.</p>
*
* <p>There are two ways for the SAX application to obtain information
* from the AttributeList. First, it can iterate through the entire
* list:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   for (int i = 0; i < atts.getLength(); i++) {
*     String name = atts.getName(i);
*     String type = atts.getType(i);
*     String value = atts.getValue(i);
*     [...]
*   }
* }
* </pre>
*
* <p>(Note that the result of getLength() will be zero if there
* are no attributes.)
*
* <p>As an alternative, the application can request the value or
* type of specific attributes:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]
* }
* </pre>
*
* @deprecated This interface has been replaced by the SAX2
*   { @link org.xml.sax.Attributes Attributes}
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

```

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java  
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```
/**
 * Receive notification of general document events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This was the main event-handling interface for SAX1; in
 * SAX2, it has been replaced by { @link org.xml.sax.ContentHandler
 * ContentHandler}, which provides Namespace support and reporting
 * of skipped entities. This interface is included in SAX2 only
 * to support legacy SAX1 applications.</p>
 *
 * <p>The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * <p>Application writers who do not want to implement the entire
 * interface can derive a class from HandlerBase, which implements
 * the default functionality; parser writers can instantiate
 * HandlerBase to obtain a default handler. The application can find
 * the location of any document event using the Locator interface
 * supplied by the Parser through the setDocumentLocator method.</p>
 *
 * @deprecated This interface has been replaced by the SAX2
 *     { @link org.xml.sax.ContentHandler ContentHandler}
 *     interface, which includes Namespace support.
 * @since SAX 1.0
 * @author David Megginson,
 *     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#setDocumentHandler
 * @see org.xml.sax.Locator
 * @see org.xml.sax.HandlerBase
 */
```

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DocumentHandler.java

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// NO WARRANTY! This class is in the Public Domain.

```

/**
 * Factory for creating an XML reader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:</p>
 *
 * <pre>
 * try {
 *   XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 *   System.err.println(e.getMessage());
 * }
 * </pre>
 *
 * <p><strong>Note to Distributions bundled with parsers:</strong>
 * You should modify the implementation of the no-arguments
 * <em>createXMLReader</em> to handle cases where the external
 * configuration mechanisms aren't set up. That method should do its
 * best to return a parser when one is in the class path, even when
 * nothing bound its class name to <code>org.xml.sax.driver</code> so
 * those configuration mechanisms would see it.</p>
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderFactory.java

```

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```

// This class is in the Public Domain. NO WARRANTY!

```

```

/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *

```

```

* <p>This class encapsulates the logic of Namespace processing:
* it tracks the declarations currently in force for each context
* and automatically processes qualified XML 1.0 names into their
* Namespace parts; it can also be used in reverse for generating
* XML 1.0 from Namespaces.</p>
*
* <p>Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>
*
* <p>Here is a simple session:</p>
*
* <pre>
* String parts[] = new String[3];
* NamespaceSupport support = new NamespaceSupport();
*
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
*
* String parts[] = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
*
* String parts[] = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
*
* support.popContext();
* </pre>
*
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* @since SAX 2.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/NamespaceSupport.java

```

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```
// NO WARRANTY! This class is in the public domain.
/**
 * Default base class for SAX2 event handlers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class is available as a convenience base class for SAX2
 * applications: it provides default implementations for all of the
 * callbacks in the four core SAX2 handler classes:</p>
 *
 * <ul>
 * <li>{ @link org.xml.sax.EntityResolver EntityResolver}</li>
 * <li>{ @link org.xml.sax.DTDHandler DTDHandler}</li>
 * <li>{ @link org.xml.sax.ContentHandler ContentHandler}</li>
 * <li>{ @link org.xml.sax.ErrorHandler ErrorHandler}</li>
 * </ul>
 *
 * <p>Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own.</p>
 *
 * <p>This class replaces the deprecated SAX1
 * { @link org.xml.sax.HandlerBase HandlerBase } class.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/DefaultHandler.java
```

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```
/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This exception will include information for locating the error
* in the original XML document. Note that although the application
* will receive a SAXParseException as the argument to the handlers
* in the { @link org.xml.sax.ErrorHandler ErrorHandler} interface,
* the application is not actually required to throw the exception;
* instead, it can simply read the information in it and take a
* different action.</p>
*
* <p>Since this exception is a subclass of { @link org.xml.sax.SAXException
* SAXException}, it inherits the ability to wrap another exception.</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXException
* @see org.xml.sax Locator
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/SAXParseException.java

```

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```

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*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ranges/RangeException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java

```

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Notation.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventTarget.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/DocumentTraversal.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Attr.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ProcessingInstruction.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/MutationEvent.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Comment.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/EntityReference.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentFragment.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CDATASection.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Node.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NodeList.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentType.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMImplementation.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventListener.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/NodeIterator.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Entity.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/DocumentRange.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMException.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Element.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/Range.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/NodeFilter.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Document.java  
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/\*\*

\* Basic interface for resolving entities.

\*

\* <blockquote>

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\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*  
\* <p>If a SAX application needs to implement customized handling  
\* for external entities, it must implement this interface and  
\* register an instance with the SAX driver using the  
\* { @link org.xml.sax.XMLReader#setEntityResolver setEntityResolver }  
\* method.</p>

\*  
\* <p>The XML reader will then allow the application to intercept any  
\* external entities (including the external DTD subset and external  
\* parameter entities, if any) before including them.</p>

\*  
\* <p>Many SAX applications will not need to implement this interface,  
\* but it will be especially useful for applications that build  
\* XML documents from databases or other specialised input sources,  
\* or for applications that use URI types other than URLs.</p>

\*  
\* <p>The following resolver would provide the application  
\* with a special character stream for the entity with the system  
\* identifier "http://www.myhost.com/today":</p>

\*  
\* <pre>  
\* import org.xml.sax.EntityResolver;  
\* import org.xml.sax.InputSource;  
\*  
\* public class MyResolver implements EntityResolver {  
\* public InputSource resolveEntity (String publicId, String systemId)  
\* {  
\* if (systemId.equals("http://www.myhost.com/today")) {  
\* // return a special input source  
\* MyReader reader = new MyReader();  
\* return new InputSource(reader);  
\* } else {  
\* // use the default behaviour  
\* return null;  
\* }  
\* }  
\* }  
\* }  
\* }  
\* </pre>

\*  
\* <p>The application can also use this interface to redirect system  
\* identifiers to local URIs or to look up replacements in a catalog  
\* (possibly by using the public identifier).</p>

\*  
\* @since SAX 1.0  
\* @author David Megginson,  
\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
\* @version 2.0  
\* @see org.xml.sax.Parser#setEntityResolver



\* @see org.xml.sax.InputSource

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java

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\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/package.html

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/package.html

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\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHtmlElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLabelElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDocument.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/w3c/dom/html/HTMLMenuElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLInputElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLHeadingElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLDirectoryElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableCellElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLHeadElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLBaseFontElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLULListElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLFrameSetElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLStyleElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLHRElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLOptionElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLOListElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLFieldSetElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLLegendElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLFormElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLCollection.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTextAreaElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLLIElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLLinkElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLParamElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableColElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTitleElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/w3c/dom/html/HTMLButtonElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLAreaElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLFontElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLIFrameElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLDivElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLImageElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLScriptElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLModElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLOptGroupElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLBaseElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLQuoteElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLDOMImplementation.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLPreElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLMetaElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLDListElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLAnchorElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableSectionElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLObjectElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLTableCaptionElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLMapElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLAppletElement.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/html/HTMLIsIndexElement.java  
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/\*\*

\* Provide an optional convenience implementation of Locator.

\*

```

* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class is available mainly for application writers, who
* can use it to make a persistent snapshot of a locator at any
* point during a document parse:</p>
*
* <pre>
* Locator locator;
* Locator startloc;
*
* public void setLocator (Locator locator)
* {
*     // note the locator
*     this.locator = locator;
* }
*
* public void startDocument ()
* {
*     // save the location of the start of the document
*     // for future use.
*     Locator startloc = new LocatorImpl(locator);
* }
* </pre>
*
* <p>Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locator object.</p>
*
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/LocatorImpl.java

```

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```

/*

```

```

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```

*

```

```

*

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\*/

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\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/ParserConfigurationException.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryFinder.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryConfigurationError.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParserFactory.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/DocumentBuilderFactory.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/DocumentBuilder.java

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/\*\*

\* Interface for reading an XML document using callbacks.

\*

\* <blockquote>

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\* </blockquote>

\*

\* <p><strong>Note:</strong> despite its name, this interface does

\* <em>not</em> extend the standard Java { @link java.io.Reader Reader }

\* interface, because reading XML is a fundamentally different activity

\* than reading character data.</p>

\*

\* <p>XMLReader is the interface that an XML parser's SAX2 driver must

\* implement. This interface allows an application to set and

\* query features and properties in the parser, to register

\* event handlers for document processing, and to initiate

\* a document parse.</p>

\*

\* <p>All SAX interfaces are assumed to be synchronous: the

\* { @link #parse parse } methods must not return until parsing

\* is complete, and readers must wait for an event-handler callback

\* to return before reporting the next event.</p>

\*

\* <p>This interface replaces the (now deprecated) SAX 1.0 { @link

\* org.xml.sax.Parser Parser } interface. The XMLReader interface

\* contains two important enhancements over the old Parser

\* interface:</p>

\*

```

* <ol>
* <li>it adds a standard way to query and set features and
* properties; and</li>
* <li>it adds Namespace support, which is required for many
* higher-level XML standards.</li>
* </ol>
*
* <p>There are adapters available to convert a SAX1 Parser to
* a SAX2 XMLReader and vice-versa.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java
No license file was found, but licenses were detected in source scan.

```

```

/**
* A single input source for an XML entity.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.</p>
*
* <p>There are two places that the application will deliver this
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
* method.</p>
*
* <p>The SAX parser will use the InputSource object to determine how
* to read XML input. If there is a character stream available, the
* parser will read that stream directly; if not, the parser will use
* a byte stream, if available; if neither a character stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier.</p>

```

```

*
* <p>An InputSource object belongs to the application: the SAX parser
* shall never modify it in any way (it may modify a copy if
* necessary).</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#parse
* @see org.xml.sax.EntityResolver#resolveEntity
* @see java.io.InputStream
* @see java.io.Reader
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/InputSource.java
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```

```

// NO WARRANTY! This class is in the Public Domain.

```

```

/**
* Exception class for an unsupported operation.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>An XMLReader will throw this exception when it recognizes a
* feature or property identifier, but cannot perform the requested
* operation (setting a state or value). Other SAX2 applications and
* extensions may use this class for similar purposes.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXNotRecognizedException
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/SAXNotSupportedException.java
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```

```

/*
* The Apache Software License, Version 1.1
*

```



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jar/javax/xml/parsers/SecuritySupport.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/SecuritySupport12.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/xml/sax/helpers/SecuritySupport12.java  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/xml/sax/helpers/SecuritySupport.java

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\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/org/w3c/dom/traversal/package.html  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/package.html  
\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html

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/\*\*

\* Adapt a SAX1 Parser as a SAX2 XMLReader.

\*

\* <blockquote>

\* <em>This module, both source code and documentation, is in the

\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This class wraps a SAX1 { @link org.xml.sax.Parser Parser }

\* and makes it act as a SAX2 { @link org.xml.sax.XMLReader XMLReader },

\* with feature, property, and Namespace support. Note

\* that it is not possible to report { @link org.xml.sax.ContentHandler#skippedEntity

\* skippedEntity } events, since SAX1 does not make that information available.</p>

\*

\* <p>This adapter does not test for duplicate Namespace-qualified

\* attribute names.</p>

\*

\* @since SAX 2.0

```

* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.XMLReaderAdapter
* @see org.xml.sax.XMLReader
* @see org.xml.sax.Parser
*/
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * <p>This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
 *
 * <p>This wrapper class is used only when Namespace support
 * is disabled -- it provides pretty much a direct mapping
 * from SAX1 to SAX2, except that names and types are
 * interned whenever requested.</p>
 */

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/ParserAdapter.java

```

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```

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```

```

/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>This class provides a default implementation of the SAX2
 * { @link org.xml.sax.Attributes Attributes } interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * <p>There are two typical uses of this class:</p>
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 */

```

```
* <p>This class replaces the now-deprecated SAX1 { @link
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
* class; in addition to supporting the updated Attributes
* interface rather than the deprecated { @link org.xml.sax.AttributeList
* AttributeList} interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributesImpl.java
```

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```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Create a new instance of a class by name.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
```

```
* for further information.
```

```
* </blockquote>
```

```
*
```

```
* <p>This class contains a static method for creating an instance of a
```

```
* class from an explicit class name. It tries to use the thread's context
```

```
* ClassLoader if possible and falls back to using
```

```
* Class.forName(String). It also takes into account JDK 1.2+'s
```

```
* AccessController mechanism for performing its actions. </p>
```

```
*
```

```
* <p>This code is designed to run on JDK version 1.1 and later and compile
```

```
* on versions of Java 2 and later.</p>
```

```
*
```

```
* @author Edwin Goei, David Brownell, Neil Graham
```

```
* @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/NewInstance.java
```

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```
/**
```

```
* Encapsulate a general SAX error or warning.
```

```

*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class can contain basic error or warning information from
* either the XML parser or the application: a parser writer or
* application writer can subclass it to provide additional
* functionality. SAX handlers may throw this exception or
* any exception subclassed from it.</p>
*
* <p>If the application needs to pass through other types of
* exceptions, it must wrap those exceptions in a SAXException
* or an exception derived from a SAXException.</p>
*
* <p>If the parser or application needs to include information about a
* specific location in an XML document, it should use the
* { @link org.xml.sax.SAXParseException SAXParseException } subclass.</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXParseException
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXException.java
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```

```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Exception class for an unrecognized identifier.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>An XMLReader will throw this exception when it finds an
```

```
* unrecognized feature or property identifier; SAX applications and
```

```
* extensions may use this class for other, similar purposes.</p>
```

```
*
```

```
* @since SAX 2.0
```

```
* @author David Megginson,
```

```
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 2.0
```

\* @see org.xml.sax.SAXNotSupportedException

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java

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Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/package.html

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\*/

/\*\*

\* Create a new `DOMBuilder`. The newly constructed parser may

\* then be configured by means of its `setFeature` method,

\* and used to parse documents by means of its `parse`

\* method.

\* @param mode The `mode` argument is either

\* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if

\* `mode` is `MODE_SYNCHRONOUS` then the

\* `DOMBuilder` that is created will operate in synchronous

\* mode, if it's `MODE_ASYNCHRONOUS` then the

\* `DOMBuilder` that is created will operate in

\* asynchronous mode.

\* @param schemaType An absolute URI representing the type of the schema

\* language used during the load of a `Document` using the

\* newly created `DOMBuilder`. Note that no lexical

\* checking is done on the absolute URI. In order to create a

\* `DOMBuilder` for any kind of schema types (i.e. the

\* `DOMBuilder` will be free to use any schema found), use the value

\* `null`. For W3C XML Schema, applications must use the

- \* value `"http://www.w3.org/2001/XMLSchema"`. For XML DTD
- \* , applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* @return The newly created `DOMBuilder` object. This
- \* `DOMBuilder` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument. By
- \* default, the newly created `DOMBuilder` does not contain
- \* a `DOMErrorHandler`, i.e. the value of the
- \* `errorHandler` is `null`. However,
- \* implementations may provide a default error handler at creation
- \* time. In that case, the initial value of the
- \* `errorHandler` attribute on the new created
- \* `DOMBuilder` contains a reference to the default error
- \* handler.
- \* @exception DOMException
- \* NOT\_SUPPORTED\_ERR: Raised if the requested mode or schema type is
- \* not supported.
- \*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMImplementationLS.java

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\* Basic interface for SAX (Simple API for XML) parsers.

\*

\* `<blockquote>`

\* `<em>`This module, both source code and documentation, is in the

\* Public Domain, and comes with `<strong>NO WARRANTY</strong>`.`</em>`

\* `</blockquote>`

\*

\* `<p>`This was the main event supplier interface for SAX1; it has

\* been replaced in SAX2 by { @link org.xml.sax.XMLReader XMLReader },

\* which includes Namespace support and sophisticated configurability

\* and extensibility.`</p>`

\*

\* `<p>`All SAX1 parsers must implement this basic interface: it allows

\* applications to register handlers for different types of events

\* and to initiate a parse from a URI, or a character stream.`</p>`

\*

\* `<p>`All SAX1 parsers must also implement a zero-argument constructor

\* (though other constructors are also allowed).`</p>`

\*

\* `<p>`SAX1 parsers are reusable but not re-entrant: the application

\* may reuse a parser object (possibly with a different input source)

```

* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
*   { @link org.xml.sax.XMLReader XMLReader }
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@meggins.com">sax@meggins.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
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```

```

// Public Domain: no warranty.

```

```

/**

```

```

* SAX2 extension handler for DTD declaration events.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>This is an optional extension handler for SAX2 to provide

```

```

* information about DTD declarations in an XML document. XML

```

```

* readers are not required to support this handler, and this

```

```

* handler is not included in the core SAX2 distribution.</p>

```

```

*

```

```

* <p>Note that data-related DTD declarations (unparsed entities and

```

```

* notations) are already reported through the { @link

```

```

* org.xml.sax.DTDHandler DTDHandler } interface.</p>

```

```

*

```

```

* <p>If you are using the declaration handler together with a lexical

```

```

* handler, all of the events will occur between the

```

```

* { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD } and the

```

```

* { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD } events.</p>

```

```

*

```

```

* <p>To set the DeclHandler for an XML reader, use the

```

```

* { @link org.xml.sax.XMLReader#setProperty setProperty } method

```

```

* with the propertyId "http://xml.org/sax/properties/declaration-handler".

```



\* If the reader does not support declaration events, it will throw a  
 \* { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }  
 \* or a  
 \* { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }  
 \* when you attempt to register the handler.</p>  
 \*  
 \* @since 1.0  
 \* @author David Megginson,  
 \* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
 \* @version 1.0  
 \* @see org.xml.sax.XMLReader  
 \*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java

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```
/**
 * Java-specific class for dynamically loading SAX parsers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p><strong>Note:</strong> This class is designed to work with the now-deprecated
 * SAX1 { @link org.xml.sax.Parser Parser } class. SAX2 applications should use
 * { @link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory } instead.</p>
 *
 * <p>ParserFactory is not part of the platform-independent definition
 * of SAX; it is an additional convenience class designed
 * specifically for Java XML application writers. SAX applications
 * can use the static methods in this class to allocate a SAX parser
 * dynamically at run-time based either on the value of the
 * `org.xml.sax.parser' system property or on a string containing the class
 * name.</p>
 *
 * <p>Note that the application still requires an XML parser that
 * implements SAX1.</p>
 *
 * @deprecated This class works with the deprecated
 * { @link org.xml.sax.Parser Parser }
 * interface.
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0r2pre3
```

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/ParserFactory.java

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Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-  
jar/javax/xml/parsers/FilePathToURI.java

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// NO WARRANTY! This class is in the public domain.

/\*\*

\* Adapt a SAX2 XMLReader as a SAX1 Parser.

\*

\* <blockquote>

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\* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

\* </blockquote>

\*

\* <p>This class wraps a SAX2 { @link org.xml.sax.XMLReader XMLReader }

\* and makes it act as a SAX1 { @link org.xml.sax.Parser Parser }. The XMLReader

\* must support a true value for the

\* <http://xml.org/sax/features/namespace-prefixes> property or parsing will fail

\* with a { @link org.xml.sax.SAXException SAXException }; if the XMLReader

\* supports a false value for the <http://xml.org/sax/features/namespaces>

\* property, that will also be used to improve efficiency.</p>

\*

\* @since SAX 2.0

\* @author David Megginson,

\* <a href="mailto:sax@megginson.com">sax@megginson.com</a>

\* @version 2.0

\* @see org.xml.sax.Parser

\* @see org.xml.sax.XMLReader

\*/

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/xml/sax/helpers/XMLReaderAdapter.java

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```
// NO WARRANTY! This class is in the public domain.
/**
 * Receive notification of the logical content of a document.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This is the main interface that most SAX applications
 * implement: if the application needs to be informed of basic parsing
 * events, it implements this interface and registers an instance with
 * the SAX parser using the { @link org.xml.sax.XMLReader#setContentHandler
 * setContentHandler} method. The parser uses the instance to report
 * basic document-related events like the start and end of elements
 * and character data.</p>
 *
 * <p>The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * <p>This interface is similar to the now-deprecated SAX 1.0
 * DocumentHandler interface, but it adds support for Namespaces
 * and for reporting skipped entities (in non-validating XML
 * processors).</p>
 *
 * <p>Implementors should note that there is also a Java class
 * { @link java.net.ContentHandler ContentHandler} in the java.net
 * package; that means that it's probably a bad idea to do</p>
 *
 * <blockquote>
 * import java.net.*;
 * import org.xml.sax.*;
 * </blockquote>
 *
 * <p>In fact, "import ...*" is usually a sign of sloppy programming
 * anyway, so the user should consider this a feature rather than a
 * bug.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@meggison.com">sax@meggison.com</a>
 * @version 2.0
```

```
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/
```

Found in path(s):

```
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java
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```

```
// Public Domain: no warranty.
```

```
/**
```

```
* SAX2 extension handler for lexical events.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>This is an optional extension handler for SAX2 to provide
```

```
* lexical information about an XML document, such as comments
```

```
* and CDATA section boundaries; XML readers are not required to
```

```
* support this handler, and it is not part of the core SAX2
```

```
* distribution.</p>
```

```
*
```

```
* <p>The events in the lexical handler apply to the entire document,
```

```
* not just to the document element, and all lexical handler events
```

```
* must appear between the content handler's startDocument and
```

```
* endDocument events.</p>
```

```
*
```

```
* <p>To set the LexicalHandler for an XML reader, use the
```

```
* { @link org.xml.sax.XMLReader#setProperty setProperty } method
```

```
* with the propertyId "http://xml.org/sax/properties/lexical-handler".
```

```
* If the reader does not support lexical events, it will throw a
```

```
* { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }
```

```
* or a
```

```
* { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }
```

```
* when you attempt to register the handler.</p>
```

```
*
```

```
* @since 1.0
```

```
* @author David Megginson,
```

```
* <a href="mailto:sax@meggison.com">sax@meggison.com</a>
```

```
* @version 1.0
```

```
* @see org.xml.sax.XMLReader#setProperty
```

```
* @see org.xml.sax.SAXNotRecognizedException
```

```
* @see org.xml.sax.SAXNotSupportedException
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1150916854\_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/LexicalHandler.java

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## 1.428 dom4j 1.6.1

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History:

Date	Who	What
28oct1999	dl	Created
14dec1999	dl	jmm snapshot
19apr2000	dl	use barrierLock
12jan2001	dl	public release
17nov2001	dl	Minor tunings

20may2002 dl           BarrierLock can now be serialized.

09dec2002 dl           Fix interference checks.

\*/

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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPath.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableColumnDefinition.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/AttributeHelper.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentHelper.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentSource.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractNode.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMEntityReference.java  
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 jar/org/dom4j/dom/DOMNodeHelper.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPathException.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractElement.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Namespace.java  
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 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/IllegalAddException.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMCDATA.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/datatype/DatatypeDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/AttributeDecl.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/util/UserDataDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBWriter.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Attribute.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/bean/BeanDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ElementHandler.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightText.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/JAXPHelper.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/util/PerThreadSingleton.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/QNameCache.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/VisitorSupport.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentResult.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Entity.java  
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Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport

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Implementation-Version: 4.1.62.Final

Built-By: norman

Bnd-LastModified: 1617128242504

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.resolver,io.netty.util";version="4.1.62",io.netty.channel;uses:="io.netty.bootstrap,io.netty.buffer,io.netty.util,io.netty.util.concurrent";version="4.1.62",io.netty.channel.embedded;uses:="io.netty.channel";version="4.1.62",io.netty.channel.group;uses:="io.netty.channel,io.netty.util.concurrent";version="4.1.62",io.netty.channel.internal;version="4.1.62",io.netty.channel.local;uses:="io.netty.channel";version="4.1.62",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.channel,io.netty.util,io.netty.util.concurrent";version="4.1.62",io.netty.channel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.62",io.netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel,io.netty.util.concurrent";version="4.1.62",io.netty.channel.socket;uses:="io.netty.buffer,io.netty.channel,io.netty.util";version="4.1.62",io.netty.channel.socket.nio;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.nio,io.netty.channel.socket";version="4.1.62",io.netty.channel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.oio,io.netty.channel.socket";version="4.1.62"  
Bundle-Name: Netty/Transport  
Bundle-Version: 4.1.62.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-transport/>

Found in path(s):

\* /opt/cola/permits/1171712314\_1623127841.75/0/netty-transport-4-1-62-final-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1171712314\_1623127841.75/0/netty-transport-4-1-62-final-jar/META-INF/native-image/io.netty.transport/native-image.properties

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\* /opt/cola/permits/1171712314\_1623127841.75/0/netty-transport-4-1-62-final-jar/META-INF/maven/io.netty/netty-transport/pom.xml

# 1.433 maven-model 3.6.0

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## 1.434 wagon-http 3.2.0

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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#### Apache

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- org.apache.taglibs:taglibs-standard-impl

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- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli
- org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{
    /**
     * Get the basic version string for the current Xalan release.
     * Version String formatted like
     * <CODE><B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B>nn]</CODE>.
     *
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */
    public static String getVersion()
    {
        return getProduct()+" "+getImplementationLanguage()+" "
            +getMajorVersionNum()+". "+getReleaseVersionNum()+". "
            +(getDevelopmentVersionNum() > 0) ?
                ("D"+getDevelopmentVersionNum()) : (" "+getMaintenanceVersionNum());
    }

    /**
     * Print the processor version to the command line.
     *
     * @param argv command line arguments, unused.
     */

```

```

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider the implications
 *     of new versions as external interfaces and behaviour
 *     may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()

```

```

{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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\*/

/\*\*

\* This is a special exception that is used to stop parsing when  
\* search for an element. For instance, when searching for xml:stylesheet  
\* PIs, it is used to stop the parse once the document element is found.  
\* @see StylesheetPIHandler  
\* @xsl.usage internal

\*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java

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Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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\* limitations under the License.

\*/

/\*

\* \$Id: Version.src 468654 2006-10-28 07:09:23Z minchau \$

\*/

package org.apache.xml.serializer;

/\*\*

\* Administrative class to keep track of the version number of

\* the Serializer release.

\* <P>This class implements the upcoming standard of having

\* org.apache.project-name.Version.getVersion() be a standard way

\* to get version information.</P>

\* @xsl.usage general

\*/

public final class Version

{

/\*\*

\* Get the basic version string for the current Serializer.

\* Version String formatted like

\* <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd|<B>D</B>nm]"</CODE>.

\*

\* Futurework: have this read version info from jar manifest.

\*

```

* @return String denoting our current version
*/
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+". "
        +(getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 *
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

```

```

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as

```

```

*     the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
}
}

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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*/
/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
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```

\*/

```
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/ToHTMLStream.java
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\*/

// Proprietary

/\*\* The 'document-location()' id (Proprietary). \*/

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_text.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_xml.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_unknown.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_html.properties

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```

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
/**
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
}

```

```

private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xslt = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xslt.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xslt.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xslt.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:" and "{uri}:@*". The last two
 * patterns are expanded as "[namespace-uri() = 'uri']" and

```



```

* "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
* simplifies the grouping of patterns in the Mode class. For this
* expansion to be correct, the priority of the pattern/template must be
* set to -0.25 (when no other predicates are present).
*/
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

return new StepPattern(axis, nodeType, predicates);
}
else {
QName name = (QName)test;
boolean setPriority = false;

if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xsltC.registerNamespacePrefix(name);
}
else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
_parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("") || local.equals("@*"))) {
    if (predicates == null) {
predicates = new Vector(2);
}

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

predicates.add(
new Predicate(
    new EqualityExpr(Operators.EQ,
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri))););
}
}
}
}

```

```

if (local.equals("")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
}
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
result.setPriority(-0.25);
}

return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
}
else if (test instanceof Integer) {
    return ((Integer)test).intValue();
}
else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
return (name.toString().equals("")) ? -1
: _xsltc.registerNamespacePrefix(name);
}

    if (name.getNamespace() == null) {
final String local = name.getLocalPart();

if (local.equals("")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
}
}
}

```

```

    }
    else if (local.equals("@*")) {
        return NodeTest.ATTRIBUTE;
    }
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
}
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

```

```

    }

    public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
    }

    public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
    _parser.reportError(Constants.FATAL, err);
    }

    public void report_fatal_error(String message, Object info) {
    // empty
    }

    public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
    }
    }

    /**
    * Returns true if the axis applies to elements only. The axes
    * child, attribute, namespace, descendant result in non-empty
    * nodesets only if the context node is of type element.
    */
    public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
    axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
    }
    :}

```

```

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;

```

terminal String Literal;  
terminal String QName;  
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;  
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;  
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;  
terminal Double REAL;  
terminal Long INT;  
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;  
non terminal Expression Predicate, FilterExpr, Step;  
non terminal Expression OrExpr, AndExpr, EqualityExpr;  
non terminal Expression RelationalExpr, AdditiveExpr;  
non terminal Expression MultiplicativeExpr, UnaryExpr;  
non terminal Expression VariableReference, FunctionCall;  
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;  
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;  
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;  
non terminal Pattern Pattern;  
non terminal Pattern LocationPathPattern;  
non terminal StepPattern ProcessingInstructionPattern;  
non terminal RelativePathPattern RelativePathPattern;  
non terminal StepPattern StepPattern;  
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;  
non terminal QName QName, FunctionName, VariableName;  
non terminal Integer AxisName, AxisSpecifier;  
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;  
precedence left OR;  
precedence left AND;  
precedence nonassoc EQ, NE;  
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;  
precedence left DIV, MOD, MULT;  
precedence left DOLLAR;  
precedence left ATSIGN;  
precedence right DCOLON;

start with TopLevel;

```
TopLevel ::= PATTERN Pattern:pattern
    { : RESULT = pattern; : }
```

```
    | EXPRESSION Expr:expr
    { : RESULT = expr; : };
```

```
/* ----- Patterns ----- */
```

```
Pattern ::= LocationPathPattern:lpp
    { : RESULT = lpp; : }
```

```
    | LocationPathPattern:lpp VBAR Pattern:p
    { : RESULT = new AlternativePattern(lpp, p); : };
```

```
LocationPathPattern ::= SLASH
    { : RESULT = new AbsolutePathPattern(null); : }
```

```
    | SLASH RelativePathPattern:rpp
    { : RESULT = new AbsolutePathPattern(rpp); : }
```

```
    | IdKeyPattern:ikp
    { : RESULT = ikp; : }
```

```
    | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    { : RESULT = new ParentPattern(ikp, rpp); : }
```

```
    | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(ikp, rpp); : }
```

```
    | DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(rpp); : }
```

```
    | RelativePathPattern:rpp
    { : RESULT = rpp; : };
```

```
IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    { : RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
      : }
```

```
    | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
    { : RESULT = new KeyPattern(l1, l2); : };
```

```
ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    { : RESULT = new ProcessingInstructionPattern(l); : };
```

```

RelativePathPattern ::= StepPattern:sp
    { : RESULT = sp; : }

    | StepPattern:sp SLASH RelativePathPattern:rpp
    { : RESULT = new ParentPattern(sp, rpp); : }

    | StepPattern:sp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(sp, rpp); : };

StepPattern ::= NodeTestPattern:nt
    { :
    RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
    : }

    | NodeTestPattern:nt Predicates:pp
    { :
    RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
    : }

    | ProcessingInstructionPattern:pip
    { : RESULT = pip; : }

    | ProcessingInstructionPattern:pip Predicates:pp
    { : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : }

    | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
    { :
    RESULT = parser.createStepPattern(axis.intValue(), nt, null);
    : }

    | ChildOrAttributeAxisSpecifier:axis
    NodeTestPattern:nt Predicates:pp
    { :
    RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
    : }

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    { :
    RESULT = pip; // TODO: report error if axis is attribute
    : }

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    Predicates:pp
    { :
    // TODO: report error if axis is attribute
    RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    : };

```

```

NodeTestPattern ::= NameTestPattern:nt
    { : RESULT = nt; : }

    | NODE
    { : RESULT = new Integer(NodeTest.ANODE); : }

    | TEXT
    { : RESULT = new Integer(NodeTest.TEXT); : }

    | COMMENT
    { : RESULT = new Integer(NodeTest.COMMENT); : }

    | PI
    { : RESULT = new Integer(NodeTest.PI); : };

NameTestPattern ::= STAR
    { : RESULT = null; : }

    | QName:qn
    { : RESULT = qn; : };

ChildOrAttributeAxisSpecifier ::= ATSIGN
    { : RESULT = new Integer(Axis.ATTRIBUTE); : }

    | CHILD DCOLON
    { : RESULT = new Integer(Axis.CHILD); : }

    | ATTRIBUTE DCOLON
    { : RESULT = new Integer(Axis.ATTRIBUTE); : };

Predicates ::= Predicate:p
    { :
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
    : }

    | Predicate:p Predicates:pp
    { : pp.insertElementAt(p, 0); RESULT = pp; : };

Predicate ::= LBRACK Expr:e RBRACK
    { :
    RESULT = new Predicate(e);
    : };

/* ----- Expressions ----- */

Expr ::= OrExpr:ex

```



{: RESULT = ex; :};

OrExpr ::= AndExpr:ae

{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae

{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e

{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee

{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re

{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re

{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re

{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae

{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

| RelationalExpr:re GE AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me

{: RESULT = me; :}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me

{: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me

{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue

```

{: RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}

| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{:
  //
  // Expand '/' into '/descendant-or-self::node()' or
  // into '/descendant-or-self::*'
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }

  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {

```

```

        fpp.setDescendantAxis();
    }
    RESULT = fpp;
};

LocationPath ::= RelativeLocationPath:rlp
    { : RESULT = rlp; : }

    | AbsoluteLocationPath:alp
    { : RESULT = alp; : };

RelativeLocationPath ::= Step:step
    { : RESULT = step; : }

    | RelativeLocationPath:rlp SLASH Step:step
    { :
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;    // Remove '.' from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;    // Remove '.' from the end
    }
    else {
        RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
    }
    : }

    | AbbreviatedRelativeLocationPath:arlp
    { : RESULT = arlp; : };

AbsoluteLocationPath ::= SLASH
    { : RESULT = new AbsoluteLocationPath(); : }

    | SLASH RelativeLocationPath:rlp
    { : RESULT = new AbsoluteLocationPath(rlp); : }

    | AbbreviatedAbsoluteLocationPath:aalp
    { : RESULT = aalp; : };

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
    { :
    final Step right = (Step)step;
    final int axis = right.getAxis();
    final int type = right.getNodeType();
    final Vector predicates = right.getPredicates();

    if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {

```

```

// Compress '//child:E' into 'descendant::E' - if possible
if (predicates == null) {
    right.setAxis(Axis.DESCEMANT);
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        RESULT = right;
    }
    else {
        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
    }
}
else {
    // Expand '//step' -> 'descendant-or-self::*step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCEMANTORSELF,
DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    }
    else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCEMANTORSELF,
DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCEMANTORSELF,
DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCEMANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

```

```

AbbreviatedAbsolutePath ::= DSLASH RelativeLocationPath:rlp
{
  //
  // Expand '/' into '/descendant-or-self::node()' or
  // into '/descendant-or-self::*'
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  RESULT = new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
};

Step ::= NodeTest:ntest
{
  if (ntest instanceof Step) {
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD,
      parser.findNodeType(Axis.CHILD, ntest),
      null);
  }
};

| NodeTest:ntest Predicates:pp
{
  if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD,
      parser.findNodeType(Axis.CHILD, ntest), pp);
  }
};

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{: RESULT = new Step(axis.intValue(),
  parser.findNodeType(axis.intValue(), ntest),
  pp);
};

```

```
| AxisSpecifier:axis NodeTest:ntest
{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null);
:}
```

```
| AbbreviatedStep:abbrev
{: RESULT = abbrev; :};
```

```
AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}
```

```
| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};
```

```
AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}
```

```
| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}
```

```
| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}
```

```
| CHILD
{: RESULT = new Integer(Axis.CHILD); :}
```

```
| DESCENDANT
{: RESULT = new Integer(Axis.DESCENDANT); :}
```

```
| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}
```

```
| FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); :}
```

```
| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}
```

```
| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); :}
```

```
| PARENT
{: RESULT = new Integer(Axis.PARENT); :}
```

```
| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); :}
```

```

| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

| SELF
{: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; :}

| LPAREN Expr:ex RPAREN
{: RESULT = ex; :}

| Literal:string
{:
/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
: new LiteralExpr(string, namespace);
:}

| INT:num
{:
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);

```

```

}
else {
    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}
:}

```

```

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

```

```

| FunctionCall:fc
{: RESULT = fc; :};

```

VariableReference ::= DOLLAR VariableName:varName

```

{:
    // An empty QName prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);

    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
        }
        else {
            RESULT = new UnresolvedRef(varName);
        }
    }

    if (node == null) {
        RESULT = new UnresolvedRef(varName);
    }
:};

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```

{:
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
}

```



```

else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

```

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN

```

{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}

```

```

}
    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
    else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
}

```

```

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
};

```

NonemptyArgumentList ::= Argument:arg

```

{:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}

```

```

| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

```

FunctionName ::= QName:fname

```

{:
    RESULT = fname;
:};

```

VariableName ::= QName:vname

```

{:

```

```

    RESULT = vname;
};

Argument ::= Expr:ex
    { : RESULT = ex; :};

NodeTest ::= NameTest:nt
    { : RESULT = nt; :}

    | NODE
    { : RESULT = new Integer(NodeTest.ANODE); :}

    | TEXT
    { : RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
    { : RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
    { :
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
            new NameCall(name),
            new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

    | PI
    { : RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
    { : RESULT = null; :}

    | QName:qn
    { : RESULT = qn; :};

QName ::= QNAME:qname
    { : RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

    | DIV
    { : RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    { : RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY

```

```
{: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/xpath.cup
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one
 * or more contributor license agreements. See the NOTICE file
 * distributed with this work for additional information
 * regarding copyright ownership. The ASF licenses this file
 * to you under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
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 * http://www.apache.org/licenses/LICENSE-2.0
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (c) 2002 World Wide Web Consortium,
 * (Massachusetts Institute of Technology, Institut National de
 * Recherche en Informatique et en Automatique, Keio University). All
 * Rights Reserved. This program is distributed under the W3C's Software
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 * the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
 * PURPOSE.
 * See W3C License http://www.w3.org/Consortium/Legal/ for more details.
 */
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
```

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```
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```
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.
```

```
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/
/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*/
```

```

*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
    }

    /**
     * If symbol is not followed by ':' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // If end of buffer, can't disambiguate :(
        if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }

        // Return symbol if next token is ':' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
                yy_buffer[index] == '(') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

    /**

```



\* If symbol is first token or if it follows any of the operators  
\* listed in <http://www.w3.org/TR/xpath#exprlex> then treat as a  
\* name instead of a keyword (Jira-1912).  
\*/

Symbol disambiguateOperator(int ss) throws Exception {

```
    switch (last) {
    case -1: // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}
```

/\*\*

\* If symbol is first token or if it follows any of the operators  
\* listed in <http://www.w3.org/TR/xpath#exprlex> then treat as a  
\* wildcard instead of a multiplication operator  
\*/

Symbol disambiguateStar() throws Exception {

```
    switch (last) {
    case -1: // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
```

```

    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
% }

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

```

Letter={BaseChar}{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-\u1112\u1113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"\_"|{NCNameStartChar})({NCNameChar})\*

NCNameChar={Letter}|{Digit}|"."-"\_"|{CombiningChar}|{Extender}|{NCNameStartChar}|\u00B7|[\u0300-\u036F]|[\u203F-\u2040]|[\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFD]| \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

```
"*"      { return disambiguateStar(); }
"/"      { return newSymbol(sym.SLASH); }
"+"      { return newSymbol(sym.PLUS); }
"-"      { return newSymbol(sym.MINUS); }
"div"    { return disambiguateOperator(sym.DIV); }
"mod"    { return disambiguateOperator(sym.MOD); }
"::"     { return newSymbol(sym.DCOLON); }
","      { return newSymbol(sym.COMMA); }
"@ "     { return newSymbol(sym.ATSIGN); }
".. "    { return newSymbol(sym.DDOT); }
"| "     { return newSymbol(sym.VBAR); }
"$ "     { return newSymbol(sym.DOLLAR); }
"// "    { return newSymbol(sym.DSLASH); }
"="      { return newSymbol(sym.EQ); }
"!="     { return newSymbol(sym.NE); }
"<"      { return newSymbol(sym.LT); }
">"      { return newSymbol(sym.GT); }
"<="     { return newSymbol(sym.LE); }
">="     { return newSymbol(sym.GE); }
"id"     { return disambiguateAxisOrFunction(sym.ID); }
"key"    { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
```

```

"or"          { return disambiguateOperator(sym.OR); }
"and"         { return disambiguateOperator(sym.AND); }
"child"       { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"   { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"    { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"   { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"   { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"      { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"   { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"        { return disambiguateAxisOrFunction(sym.SELF); }
"["           { return newSymbol(sym.LBRACK); }
"]"           { return newSymbol(sym.RBRACK); }
"("           { return newSymbol(sym.LPAREN); }
")"           { return newSymbol(sym.RPAREN); }
"<PATTERN>"   { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\[^\]*\      { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
\[^\]*\      { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
{Digit}+     { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
"."          { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?@"*     { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?@"*     { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]        { /* ignore white space. */ }
.                  { throw new Exception(yytext()); }

```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex
```

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```
/*
```

```

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```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

    /**
     * Print the processor version to the command line.
     *
     * @param argv command line arguments, unused.
     */
    public static void main(String argv[])
    {
        System.out.println(S_VERSION);
    }

    /**
     * Constant name of product.
     */
    public static final String PRODUCT = "Xalan";

    /**
     * Implementation Language.
     */
    public static final String LANGUAGE = "Java";

    /**
     * Major version number.
     * Version number. This changes only when there is a
     * significant, externally apparent enhancement from

```

```

*    the previous release. 'n' represents the n'th
*    version.
*
*    Clients should carefully consider the implications
*    of new versions as external interfaces and behaviour
*    may have changed.
*/
public static final int VERSION = @version.VERSION@;

/**
* Release Number.
* Release number. This changes when:
*   - a new set of functionality is to be added, eg,
*     implementation of a new W3C specification.
*   - API or behaviour change.
*   - its designated as a reference release.
*/
public static final int RELEASE = @version.RELEASE@;

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static final int MAINTENANCE = @version.MINOR@;

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static final int DEVELOPMENT = 0;

```

```

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
    +VERSION+"."+RELEASE+"."
    +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
    : (""+MAINTENANCE));
}

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src

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Found in path(s):

- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html  
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\*/

// Proprietary, built in functions

/\*\* current function string (Proprietary). \*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/LocPathIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/res/XMLErrorResources\_pt\_BR.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/processor/ProcessorInclude.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/Message.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLString.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/templates/ElemExtensionDecl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/utils/WrappedRuntimeException.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/res/XResources\_de.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/res/XPATHMessages.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ca.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/BoolStack.java  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AncestorPattern.java  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorLRE.java  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_ja\_JP\_A.java  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java  
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## 1.440 management-api 3.2.1

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\* /opt/cola/permits/1144733775\_1616570364.4/0/management-api-3-2-1-sources-1-jar/org/glassfish/external/amx/AMX.java  
\* /opt/cola/permits/1144733775\_1616570364.4/0/management-api-3-2-1-sources-1-jar/org/glassfish/external/statistics/impl/RangeStatisticImpl.java  
\* /opt/cola/permits/1144733775\_1616570364.4/0/management-api-3-2-1-sources-1-jar/org/glassfish/external/probe/provider/StatsProviderInfo.java  
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# 1.441 javax-websocket-api 1.0

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# 1.442 snappy-java 1.0.4.1

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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/filter/ContentFilter.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/filter/NegateFilter.java  
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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/JDOMParseException.java  
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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/filter/Filter.java
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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/namespace/namespace.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/IllegalNameException.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/UncheckedJDOMFactory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/adapters/JAXPDOMAdapter.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/IllegalAddException.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/JDOMException.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/StAXStreamProcessor.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/IllegalDataException.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/located/LocatedJDOMFactory.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/located/LocatedDocType.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/output/support/AbstractFormattedWalker.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/output/support/WalkerNORMALIZE.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/contrib/dtdaware/AttFilteredXMLOutputProcessor.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/located/LocatedComment.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/located/LocatedText.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/located/LocatedProcessingInstruction.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/output/support/WalkerTRIM.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/located/Located.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/output/support/WalkerTRIM\_FULL\_WHITE.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/located/LocatedCDATA.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/located/LocatedEntityRef.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/Walker.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/located/LocatedElement.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/output/support/WalkerPRESERVE.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/contrib/dtdaware/AttAwareXMLOutputProcessor.java  
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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/filter/Filters.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/NamespaceAware.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/JDOMConstants.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/filter/ClassFilter.java

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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/AttributeType.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/StAXEventBuilder.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-

jar/org/jdom2/output/StAXEventOutputter.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/stax/DTDParser.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/StAXStreamBuilder.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/package-info.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/xpath/jaxen/JDOMNavigator.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/xpath/jaxen/NamespaceContainer.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/filter/AttributeFilter.java  
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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/beans/BeanMapperException.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/beans/TestIndexed.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/beans/DateUtils.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/input/ResultSetBuilder.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/beans/StringConverter.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/input/scanner/ElementScanner.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/beans/JDOMBean.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/helpers/XPathHelper.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/beans/BeanMapper.java

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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/AbstractReaderSchemaFactory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/AbstractReaderXSDFactory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/stax/DefaultStAXFilter.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/XMLReaderJDOMFactory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/XMLReaderSchemaFactory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/XMLReaders.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/XMLReaderSAX2Factory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/stax/StAXFilter.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/SAXBuilderEngine.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/XMLReaderXSDFactory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/SAXEngine.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/SAXHandlerFactory.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/StringBin.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/XMLOutputProcessor.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/SAXOutputProcessor.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/AbstractStAXEventProcessor.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/DOMOutputProcessor.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/StAXEventProcessor.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/AbstractDOMOutputProcessor.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/FormatStack.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/support/AbstractStAXStreamProcessor.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/schema/ValidationError.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/schema/Schema.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/LineSeparator.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/DefaultSAXHandlerFactory.java

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```
*/
/*
* =====
* Support methods for Text-content formatting. Should all be protected. The
* following are used when printing Text-based data. Because of complicated
* multi-sequential text sometimes the requirements are odd. All Text
* content will be output using these methods, which is why there is the None
* version.
* =====
*/
```

Found in path(s):

```
*/opt/cola/permits/1149253563_1619492507.99/0/jdom-2-0-2-sources-
jar/org/jdom2/output/support/AbstractOutputProcessor.java
```

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```
/*--
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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/transform/JDOMSource.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/transform/JDOMResult.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/util/NamespaceStack.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/internal/ArrayCopy.java  
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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/input/scanner/JakartaRegExpXPathMatcher.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/input/scanner/ElementListener.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/ids/IdElement.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/ids/IdAttribute.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/ids/IdDocument.java

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```
*/
/*
* =====
* Support methods for Text-content formatting. Should all be protected. The
* following are used when printing Text-based data. Because of complicated
* multi-sequential text sometimes the requirements are odd. All Text
* content will be output using these methods, which is why there is the None
* version.
* =====
*/
```

Found in path(s):

```
* /opt/cola/permits/1149253563_1619492507.99/0/jdom-2-0-2-sources-
jar/org/jdom2/output/support/AbstractXMLOutputProcessor.java
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```

```
/*--
```

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/input/sax/BuilderErrorHandler.java

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/output/DOMOutputter.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/xpath/XPath.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/test/cases/TestVerifier.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/test/cases/TestFilterList.java

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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/CloneBase.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JEntityRef.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JDOMConfiguration.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/xpath/XPathExpression.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JCDATA.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JElement.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/xpath/XPathDiagnostic.java
- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/xpath/xalan/NamespacePointer.java
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- \* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-

jar/org/jdom2/xpath/jaxen/JaxenCompiled.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/xpath/util/XPathDiagnosticImpl.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/util/IteratorIterable.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/xpath/jaxen/JDOMCoreNavigator.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/xpath/XPathFactory.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JDocType.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/test/cases/xpath/AbstractTestXPathCompiled.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/DOM.java  
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jar/org/jdom2/xpath/jaxen/JaxenXPathFactory.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
jar/org/jdom2/contrib/dom/JSimpleCharacterContent.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/SlimJDOMFactory.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JNode.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
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jar/org/jdom2/contrib/dom/JProcessingInstruction.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JNamespace.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JContent.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/dom/JNodeList.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-  
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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/test/cases/TestCDATA.java

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\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/test/cases/TestAttribute.java

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Found in path(s):

\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/input/LineNumberSAXHandler.java  
\* /opt/cola/permits/1149253563\_1619492507.99/0/jdom-2-0-2-sources-jar/org/jdom2/contrib/input/LineNumberElement.java

## 1.445 batik-svgrasterizer 1.11

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The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----  
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/ServletContextCleaner.java  
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\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java  
\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/Log.java  
\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/LogFactoryImpl.java  
\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/Log4JLogger.java  
\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/LogSource.java  
\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-

jar/org/apache/commons/logging/impl/NoOpLog.java  
\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-  
jar/org/apache/commons/logging/LogConfigurationException.java  
\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-  
jar/org/apache/commons/logging/impl/Jdk14Logger.java  
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jar/org/apache/commons/logging/impl/LogKitLogger.java  
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\* /opt/cola/permits/1135953085\_1613641336.59/0/commons-logging-1-1-sources-10-  
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# 1.455 hibernate-entitymanager 3.6.0.Final

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# 1.457 json-java 20180130

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```
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* Jakarta Bean Validation API  
*  
* License: Apache License, Version 2.0  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
```

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NegativeOrZero.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerElementTypeDescriptor.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

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\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/FormatString.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/MustBeClosed.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/CompatibleWith.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/RestrictedApi.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/DoNotMock.java  
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\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/DoNotCall.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java



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jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-
jar/com/google/errorprone/annotations/NoAllocation.java
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jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
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jar/com/google/errorprone/annotations/CompileTimeConstant.java
```

\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/Immutable.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/SuppressPackageLocation.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/ForOverride.java  
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\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/concurrent/LazyInit.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/RequiredModifiers.java  
\* /opt/cola/permits/1028387514\_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/Var.java

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## 1.466 resteasy-oauth 2.3.4.Final

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jar/com/thoughtworks/xstream/converters/time/DurationConverter.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/util/QuickWriter.java  
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\* Created on 17. April 2009 by Joerg Schaible

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/mapper/CachingMapper.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3Dom.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/collections/MapConverter.java  
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```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java
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```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathUnmarshaller.java
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 * Created on 03. May 2006 by Mauro Talevi
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Found in path(s):

```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/mapper/AbstractXmlFriendlyMapper.java
```

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Found in path(s):

```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java
```

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```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/SequenceGenerator.java
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```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/MarshallingContext.java
```

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```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
```

```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
```

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/time/YearConverter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java

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\* Created on 13. June 2006 by Guilherme Silveira

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/persistence/StreamStrategy.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/Cloneables.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/ColorConverter.java  
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\* Created on 08. January 2016 by Joerg Schaible, factored out from FieldAliasingMapper.  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java  
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*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/mapper/EnumMapper.java
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```
*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
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Found in path(s):

```
*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/Caching.java
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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/ObjectIdDictionary.java
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/GregorianCalendarConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/ISO8601DateConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/StringCodec.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java  
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jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java  
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jar/com/thoughtworks/xstream/io/path/PathTrackingWriter.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/HierarchicalStreamWriter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/basic/package.html

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\* Created on 12. February 2008 by Joerg Schaible

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/enums/EnumSingleValueConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/Base64Encoder.java  
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\* Created on 04. June 2006 by Mauro Talevi  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/Pool.java  
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 * Created on 29. September 2004 by James Strachan
 */
```

Found in path(s):

```
*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/xml/StaxDriver.java
```

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Found in path(s):

```
*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/InitializationException.java
```

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Found in path(s):

```
*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
```

```
*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
```

jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/ConversionException.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/FontConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/collections/CollectionConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java

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jar/com/thoughtworks/xstream/converters/basic/StringConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/ConverterMatcher.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/JVM.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/XomReader.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/DomWriter.java



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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/converters/enums/EnumMapConverter.java
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 * Created on 01. March 2013 by Joerg Schaible, moved from package
 * com.thoughtworks.xstream.converters.reflection.
 */
```

Found in path(s):

```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/XMLFriendlyReader.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/XMLFriendlyWriter.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/util/PresortedMap.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-

jar/com/thoughtworks/xstream/converters/extended/FileConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/TraxSource.java

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\* Created on 15. August 2009 by Joerg Schaible, copied from XmlFriendlyReplacer.

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyNameCoder.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/UnmarshallingContext.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/LongConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/XppDriver.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/AbstractPullReader.java  
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Found in path(s):

```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
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```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/HierarchicalStreamDriver.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java  
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jar/com/thoughtworks/xstream/io/WriterWrapper.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/mapper/AttributeAliasingMapper.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/ErrorReporter.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/CompactWriter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java

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Found in path(s):

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*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/converters/extended/EncodedByteArrayConverter.java
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*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/core/util/HierarchicalStreams.java
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java

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jar/com/thoughtworks/xstream/io/xml/Dom4JReader.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java  
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jar/com/thoughtworks/xstream/core/DefaultConverterLookup.java

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*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/SubjectConverter.java  
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*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java  
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*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/TypedNull.java
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jar/com/thoughtworks/xstream/persistence/XmlMap.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/StaxWriter.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/SjsxpDriver.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/collections/TreeSetConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/DurationConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/ReferencingMarshallingContext.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/core/util/DependencyInjectionFactory.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/collections/package.html

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/package.html

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jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshallingStrategy.java  
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jar/com/thoughtworks/xstream/io/xml/StaxReader.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/XppDomReader.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/path/PathTracker.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-

jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/DomReader.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/annotations/XStreamConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/DocumentReader.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java  
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jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java  
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jar/com/thoughtworks/xstream/io/xml/WstxDriver.java  
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jar/com/thoughtworks/xstream/mapper/FieldAliasingMapper.java  
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jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-

jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java  
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*  
* Created on 30. March 2007 by Joerg Schaible  
*/
```

Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java  
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* Created on 05. May 2017 by Joerg Schaible, copied from ISO8601GregorianCalendarConverter  
*/
```

Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/ISO8601JodaTimeConverter.java  
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* Created on 07. July 2006 by Mauro Talevi  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java

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\* Created on 08. January 2014 by Joerg Schaible, factored out from SunUnsafeReflectionProvider

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/mapper/Mapper.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/ConverterLookup.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/AttributeNameIterator.java

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/\*\*

\* A SAX { @link org.xml.sax.XMLReader parser} that acts as an XStream

\* { @link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a

\* SAX event flow from the XStream serialization of a list of list of Java objects.

\* <p>

\* As a

\* custom SAX parser, this class ignores the arguments of the two standard parse methods ({ @link #parse(java.lang.String)}

\* and { @link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property

\* { @link #SOURCE\_OBJECT\_LIST\_PROPERTY} to define the list of objects to serialize.

\* </p>

\* <p>

\* Configuration of this SAX parser is achieved through the standard

\* { @link #setProperty SAX property mechanism}. While specific setter methods require direct

\* access to the parser instance, SAX properties support configuration settings to be propagated

```

* through a chain of { @link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* { @link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* { @link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
*
* @author Laurent Bihanic
*/
/**
 * Sets the value of a property.
 * <p>
 * The property name is any fully-qualified URI. It is
 * possible for an XMLReader to recognize a property name but
 * to be unable to set its value.</p>
 * <p>
 * XMLReaders are not required to recognize setting any
 * specific property names, though a core set is provided with
 * SAX2.</p>
 * <p>
 * Some property values may be immutable or mutable only
 * in specific contexts, such as before, during, or after
 * a parse.</p>
 * <p>
 * This method is also the standard mechanism for setting
 * extended handlers.</p>
 * <p>
 * <strong>Note</strong>: This implementation only supports two
 * (proprietary) properties: { @link #CONFIGURED_XSTREAM_PROPERTY}
 * and { @link #SOURCE_OBJECT_LIST_PROPERTY}.</p>
 *
 * @param name the property name, which is a fully-qualified URI.
 * @param value the requested value for the property.
 * @throws SAXNotRecognizedException when the XMLReader does not
 *         recognize the property name.
 * @throws SAXNotSupportedException when the XMLReader recognizes
 *         the property name but cannot set
 *         the requested value.
 * @see #getProperty
 */
/**
 * Parses an XML document from a system identifier (URI).
 * <p>
 * This method is a shortcut for the common case of reading a
 * document from a system identifier. It is the exact
 * equivalent of the following:</p>

```

```

* <blockquote>
* <pre>
*   parse(new InputSource(systemId));
* </pre>
* </blockquote>
* <p>
* If the system identifier is a URL, it must be fully resolved
* by the application before it is passed to the parser.</p>
* <p>
* <strong>Note</strong>: As a custom SAX parser, this class
* ignores the <code>systemId</code> argument of this method
* and relies on the proprietary SAX property
* { @link #SOURCE_OBJECT_LIST_PROPERTY } to define the list of
* objects to serialize.</p>
*
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping
*         another exception.
* @see #parse(org.xml.sax.InputSource)
*/

```

Found in path(s):

```

* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/xml/SaxWriter.java

```

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Found in path(s):

```

* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/mapper/AttributeMapper.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/FastField.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/SerializationMethodInvoker.java  
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Found in path(s):

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jar/com/thoughtworks/xstream/annotations/XStreamImplicit.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/URLConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/SortableFieldKeySorter.java  
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jar/com/thoughtworks/xstream/converters/DataHolder.java  
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jar/com/thoughtworks/xstream/XStream.java  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-

jar/com/thoughtworks/xstream/io/xml/Dom4JDriver.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/CharConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/Dom4JXmlWriter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/BaseException.java

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jar/com/thoughtworks/xstream/converters/collections/TreeMapConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java

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jar/com/thoughtworks/xstream/io/xml/QNameMap.java  
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jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java  
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jar/com/thoughtworks/xstream/annotations/XStreamConverters.java
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```
*/opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/persistence/XmlSet.java
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```
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jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java
```



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Found in path(s):

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jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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Found in path(s):

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Manifest-Version: 1.0  
Archiver-Version: Plexus Archiver  
Created-By: Apache Maven  
Built-By: joehni  
Build-Jdk: 1.8.0\_265  
Specification-Title: XStream Core  
Specification-Vendor: XStream  
Implementation-Title: XStream Core  
Implementation-Version: 1.4.17  
Implementation-Vendor-Id: com.thoughtworks.xstream  
Implementation-Vendor: XStream  
Bundle-License: BSD-3-Clause  
Bundle-ManifestVersion: 2  
Bundle-Name: XStream Core Sources  
Bundle-SymbolicName: xstream.sources  
Bundle-Vendor: XStream Sources  
Bundle-Version: 1.4.17 Sources  
Eclipse-SourceBundle: xstream;version=1.4.17  
Specification-Version: 1.4  
X-Build-Os: Linux  
X-Build-Time: 2021-05-14T08:20:36Z  
X-Builder: Maven 3.8.1  
X-Compile-Source: 1.4  
X-Compile-Target: 1.4

Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-

jar/com/thoughtworks/xstream/converters/reflection/AbstractReflectionConverter.java

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```
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/ThreadSafeSimpleDateFormat.java  
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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/ErrorHandler.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/collections/ArrayConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/XppReader.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/basic/URICConverter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/javabean/ComparingPropertySorter.java

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jar/com/thoughtworks/xstream/core/MapBackedDataHolder.java  
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jar/com/thoughtworks/xstream/mapper/DefaultMapper.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java  
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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java
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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java
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* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java
* /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
```

jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java

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jar/com/thoughtworks/xstream/converters/extended/LookAndFeelConverter.java

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jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/WildcardTypePermission.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/NullPermission.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/AnyTypePermission.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/security/NoTypePermission.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/extended/ISO8601SqlTimestampConverter.java

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\* Created on 13. January 2017 by Matej Cimbora

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java

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jar/com/thoughtworks/xstream/core/util/Fields.java

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jar/com/thoughtworks/xstream/converters/extended/JavaMethodConverter.java

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\* Created on 11. August 2011 by Joerg Schaible, code from XppDom.  
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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java

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Found in path(s):

\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/AbstractReferenceUnmarshaller.java  
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jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java  
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jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java  
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jar/com/thoughtworks/xstream/converters/reflection/PureJavaReflectionProvider.java  
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jar/com/thoughtworks/xstream/converters/Converter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-

jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java  
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jar/com/thoughtworks/xstream/io/binary/BinaryStreamReader.java  
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c.t.x.converters.reflection.SerializationMemberInvoker.  
*/
```

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/core/util/SerializationMembers.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/reflection/NativeFieldKeySorter.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/SingleValueConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java  
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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java  
\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/converters/basic/IntConverter.java  
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jar/com/thoughtworks/xstream/io/AbstractDriver.java  
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jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java  
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jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java

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jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java

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jar/com/thoughtworks/xstream/core/util/WeakCache.java

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jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java



\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java

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jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java

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\* /opt/cola/permits/1173278269\_1623545225.57/0/xstream-1-4-17-sources-  
jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java

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jar/com/thoughtworks/xstream/converters/reflection/Sun14ReflectionProvider.java

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jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java

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jar/com/thoughtworks/xstream/core/util/Types.java

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jar/com/thoughtworks/xstream/persistence/XmlArrayList.java

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jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
 * /opt/cola/permits/1173278269_1623545225.57/0/xstream-1-4-17-sources-
jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
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jar/com/thoughtworks/xstream/io/naming/NameCoder.java
```

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\$Id: DOMOutputter.java,v 1.43 2007/11/10 05:29:01 jhunter Exp \$

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\$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: ProcessingInstruction.java,v 1.47 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Content.java,v 1.6 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp \$

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\$Id: AndFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp \$

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\$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/transform/XSLTransformException.java

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\$Id: BuilderErrorHandler.java,v 1.13 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/input/BuilderErrorHandler.java

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\$Id: Verifier.java,v 1.57 2009/07/23 05:54:23 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/Verifier.java

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\$Id: Attribute.java,v 1.56 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/Attribute.java  
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\$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/input/SAXHandler.java

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\$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/JDOMFactory.java

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\$Id: Namespace.java,v 1.44 2008/12/17 23:22:48 jhunter Exp \$

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\$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: Text.java,v 1.25 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: UncheckedJDOMFactory.java,v 1.4 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: ContentList.java,v 1.42 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JAXPParserFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Document.java,v 1.85 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: IllegalDataException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: CrimsonDOMAdapter.java,v 1.17 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/adapters/CrimsonDOMAdapter.java

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\$Id: DataConversionException.java,v 1.14 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: ElementFilter.java,v 1.20 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: DefaultJDOMFactory.java,v 1.7 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: Filter.java,v 1.10 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: CDATA.java,v 1.32 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: SAXOutputter.java,v 1.40 2007/11/10 05:29:01 jhunter Exp \$

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\$Id: JDOMException.java,v 1.26 2008/12/10 00:59:51 jhunter Exp \$

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\$Id: EntityRef.java,v 1.22 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/adapters/OracleV2DOMAdapter.java

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\$Id: AbstractFilter.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/filter/AbstractFilter.java

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\$Id: Parent.java,v 1.13 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/Parent.java

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\$Id: XML4JDOMAdapter.java,v 1.18 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/adapters/XML4JDOMAdapter.java

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\$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/input/TextBuffer.java  
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\$Id: JDOMSource.java,v 1.20 2007/11/10 05:29:02 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/transform/JDOMSource.java  
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\$Id: JaxenXPath.java,v 1.20 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/xpath/JaxenXPath.java  
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\$Id: DescendantIterator.java,v 1.6 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: EscapeStrategy.java,v 1.4 2007/11/10 05:29:01 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/output/EscapeStrategy.java  
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\$Id: XercesDOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: XMLOutputter.java,v 1.117 2009/07/23 05:54:23 jhunter Exp \$

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\$Id: SAXBuilder.java,v 1.93 2009/07/23 06:26:26 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/input/SAXBuilder.java

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\$Id: IllegalNameException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: JAXPDOMAdapter.java,v 1.13 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: AttributeList.java,v 1.24 2007/11/10 05:28:58 jhunter Exp \$

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\* /opt/cola/permits/1136279776\_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/output/JDOMLocator.java

## 1.475 velocity 1.7

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Found in path(s):

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/HsqlDeque.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
 jar/org/hsqldb/lib/AppendableException.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
 jar/org/hsqldb/lib/OrderedIntKeyHashMap.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/TriggerDefSQL.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
 jar/org/hsqldb/lib/LongValueHashMap.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestSql.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
 jar/org/hsqldb/auth/HsqlDbSlaveAuthBean.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/IntKeyHashMap.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/HsqlArrayList.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/LongLookup.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/util/MainInvoker.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/HsqlTaskQueue.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/cmdline/SqlTool.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/ArrayListIdentity.java  
 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/HsqlArrayHeap.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/server/ServerConstants.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/OrderedIntHashSet.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/LineGroupReader.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/ReaderInputStream.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/LongKeyIntValueHashMap.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/RCDData.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/IntKeyIntValueHashMap.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/IntLookup.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/LongKeyHashMap.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/CountdownInputStream.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/cmdline/sqltool/Token.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestDateTime.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/DataOutputStream.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestAcl.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/tar/TarFileInputStream.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/tar/DbBackup.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestUtil.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/Collection.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/tar/DbBackupMain.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/StringInputStream.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/tar/TarGeneratorMain.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestDbBackup.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestLobs.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/map/BitMap.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/DatabaseURL.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/BaseList.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestTypeConversion.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/RangeGroup.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/types/ClobDataID.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/RowActionBase.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/Storage.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/java/JavaSystem.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/cmdline/sqltool/Calculator.java

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/MultiValueHashMap.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/LineReader.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/SessionData.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/HashMap.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestHTTPKeepAlive.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestUpdatableResults.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestViewAsterisks.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/tar/TarReaderMain.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/FileArchiver.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/types/BlobData.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/Set.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/PersistentStoreCollection.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestCollation.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestJavaFunctions.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestUpdatableResultSets.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestTriggers.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestLikePredicateOptimizations.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/TableSpaceManagerSimple.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/TableSpaceManager.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/LongKeyLongValueHashMap.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/cmdline/SqlToolSprayer.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestMerge.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/BasicTextJdkLogFormatter.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-

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jar/org/hsqldb/cmdline/SqlToolError.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/FileAccess.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/Notified.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/auth/JaasAuthBean.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestMultiInsert.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-
jar/org/hsqldb/lib/ObjectComparator.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/Iterator.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-
jar/org/hsqldb/lib/OrderedLongKeyHashMap.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/Token.java
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*/
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Found in path(s):

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* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-
jar/org/hsqldb/server/HsqlSocketFactory.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/LongDeque.java
* /opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/types/CharacterType.java
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/SetFunction.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/WrapperIterator.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/types/Charset.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/rowio/RowOutputBase.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/jdbc/pool/JDBCPooledConnection.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/scriptio/ScriptReaderDecode.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/server/WebServer.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/types/ClobInputStream.java  
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 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/jdbc/JDBCStatement.java  
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 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/StatementSchema.java  
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 \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/types/Types.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/types/DTITType.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/ExpressionLike.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/DatabaseManager.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/map/ValuePoolHashMap.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/RAFile.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/server/ServerAcl.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformation.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/HsqlDateTime.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorDataChange.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/HsqlList.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
jar/org/hsqldb/server/ServerConnection.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/index/IndexAVL.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/index/NodeAVL.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
jar/org/hsqldb/index/IndexAVLMemory.java  
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/Like.java  
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jar/org/hsqldb/util/preprocessor/AntResolver.java  
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\*/

/\*\*

\* provides cross-package access to the proprietary (i.e. non-JDBC)

\* HSQCDB session interface. <P>

\*

\* @return the underlying sessionProxy for this connection

\*/

Found in path(s):

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
jar/org/hsqldb/jdbc/JDBCConnection.java

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\*/opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestNullInUnion.java

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/\*\*

\* Comprehensive information about the database as a whole.

\* <P>

\* This interface is implemented by driver vendors to let users know the capabilities  
\* of a Database Management System (DBMS) in combination with  
\* the driver based on JDBC<sup><font size=-2>TM</font></sup> technology  
\* ("JDBC driver") that is used with it. Different relational DBMSs often support  
\* different features, implement features in different ways, and use different  
\* data types. In addition, a driver may implement a feature on top of what the  
\* DBMS offers. Information returned by methods in this interface applies  
\* to the capabilities of a particular driver and a particular DBMS working

\* together. Note that as used in this documentation, the term "database" is used generically to refer to both the driver and DBMS.

\* <P>

\* A user for this interface is commonly a tool that needs to discover how to deal with the underlying DBMS. This is especially true for applications that are intended to be used with more than one DBMS. For example, a tool might use the method `getTypeInfo` to find out what data types can be used in a `CREATE TABLE` statement. Or a user might call the method `supportsCorrelatedSubqueries` to see if it is possible to use a correlated subquery or `supportsBatchUpdates` to see if it is possible to use batch updates.

\* <P>

\* Some `DatabaseMetaData` methods return lists of information in the form of `ResultSet` objects.

\* Regular `ResultSet` methods, such as `getString` and `getInt`, can be used to retrieve the data from these `ResultSet` objects. If a given form of metadata is not available, an empty `ResultSet` will be returned. Additional columns beyond the columns defined to be returned by the `ResultSet` object for a given method can be defined by the JDBC driver vendor and must be accessed by their **column label**.

\* <P>

\* Some `DatabaseMetaData` methods take arguments that are String patterns. These arguments all have names such as `fooPattern`.

\* Within a pattern String, "%" means match any substring of 0 or more characters, and "\_" means match any one character. Only metadata entries matching the search pattern are returned. If a search pattern argument is set to `null`, that argument's criterion will be dropped from the search.

\* <P>

\* A method that gets information about a feature that the driver does not support will throw an `SQLException`.

\* In the case of methods that return a `ResultSet` object, either a `ResultSet` object (which may be empty) is returned or an `SQLException` is thrown.

\* <!-- start release-specific documentation -->

\* <div class="ReleaseSpecificDocumentation">

\* <h3>HSQLDB-Specific Information:</h3> <p>

\* <h4>Metadata Table Production</h4>

\* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production implementation provided in the default build filters metadata based on each SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2 restriction that only users with the DBA role ('admin' users in older HSQLDB parlance) could expect trouble-free access to

\* all metadata.<p>  
 \*  
 \* Also starting with HSQLDB 1.7.2, the metadata table production implementation  
 \* classes are loaded dynamically, using a precedence policy to find and load  
 \* the richest producer available at runtime. In the event that no better  
 \* alternative is found, the default minimal (completely restricted) provider  
 \* is selected. Under this scheme, it is possible for third party packagers to  
 \* create custom distributions targeted at supporting full (design-time),  
 \* custom-written (proprietary / micro environment), minimal (production-time)  
 \* or completely-restricted (space-constrained | device embedded | real-time |  
 \* hostile environment) metadata table production scenarios. To learn more  
 \* about this option, interested parties can review the documentation and source  
 \* code for the `org.hsqldb.dbinfo.DatabaseInformation` class.<p>  
 \*  
 \* Please also note that in addition to the metadata tables produced to  
 \* directly support this class, starting with HSQLDB 1.7.2, the default build  
 \* provides many additional tables covering all or most HSQLDB features, such  
 \* as descriptions of the triggers and aliases defined in the database. <p>  
 \*  
 \* For instance, in the default build, a fairly comprehensive description of  
 \* each INFORMATION\_SCHEMA table and each INFORMATION\_SCHEMA table  
 \* column is included in the REMARKS column of the { @link #getTables(  
 \* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])  
 \* getTables(...)} and { @link #getColumns(java.lang.String, java.lang.String,  
 \* java.lang.String, java.lang.String) getColumns(...)} results, which derive  
 \* from INFORMATION\_SCHEMA.SYSTEM\_TABLES and INFORMATION\_SCHEMA.SYSTEM\_COLUMNS,  
 \* respectively.<p>  
 \*  
 \* <h4>Schema Metadata</h4>  
 \*  
 \* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and  
 \* this fact is reflected in the all subsequent versions of this class.  
 \*  
 \* <h4>Catalog Metadata</h4>  
 \*  
 \* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond  
 \* is a major theme which is reflected in the provision of the majority of the  
 \* standard-defined full-name INFORMATION\_SCHEMA views. <p>  
 \*  
 \* However, just as CATALOG semantics and handling are still considered to be  
 \* implementation defined by the most recent SQL standard (SQL:2008), so is the  
 \* HSQLDB CATALOG concept still in the process of being defined and refined in  
 \* HSQLDB 2.x. and beyond.<p>  
 \*  
 \* Previous to HSQLDB 2.x, there were, at various points in time, experimental  
 \* features provided to turn on pseudo catalog (and before that, pseudo-schema)  
 \* reporting in the system tables, using the database properties  
 \* 'hsqldb.catalogs' and 'hsqldb.schemas', respectively.<p>

\*  
\* However, once the engine fully supported the SQL SCHEMA concept, the  
\* experimental 'hsqldb.schemas' \* database property was retired. <p>  
\*  
\* Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property  
\* has been retired and replaced with the convention that, from the perspective  
\* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB  
\* database instance which consists of a single, default CATALOG  
\* named PUBLIC in which each SCHEMA instance of the database resides. The name of  
\* this catalog can be changed with the ALTER CATALOG <name> RENAME TO statement.  
\* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of  
\* database objects at the syntactic level, but does not yet support operations  
\* such as opening, manipulating or querying against multiple database  
\* catalogs within a single session, not even in a one-at-a-time fashion.<p>

#### \* <h4>Index Metadata</h4>

\*  
\* It must still be noted that as of the most recent release, HSQLDB continues  
\* to ignore the <code>approximate</code> argument of { @link #getIndexInfo  
\* getIndexInfo()} which continues to be simply indicative of absence of a fully  
\* statistics-driven cost-based SQL plan optimization facility. When,  
\* such a facility is implemented, corresponding improvements to  
\* <code>getIndexInfo</code> will be provided. <p>

#### \* <h4>Notes for developers extending metadata table production</h4>

\*  
\* Note that in the absence of an ORDER BY clause, queries against the metadata  
\* tables that directly support this class are expected to return rows in JDBC  
\* contract order. The reason for this is that results typically come  
\* back much faster when no &quot;ORDER BY&quot; clause is used. <p>

\*  
\* As such, when adding, extending or replacing a JDBC database metadata table  
\* production routine, developers need to be aware of this fact and either add the  
\* contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,  
\* preferably maintain rows in the contract order by correctly coding the  
\* primary index definition in the table producer class.<p>

\* <hr>

#### \* <b>JRE 1.1.x Notes:</b> <p>

\*  
\* In general, JDBC 2 support requires Java 1.2 and above, and JDBC3 requires  
\* Java 1.4 and above. In HSQLDB, support for methods introduced in different  
\* versions of JDBC depends on the JDK version used for compiling and building  
\* HSQLDB.<p>

\*  
\* Since 1.7.0, it is possible to build the product so that  
\* all JDBC 2 methods can be called while executing under the version 1.1.x

\* `<em>Java Runtime Environment</em><sup><font size="-2">TM</font></sup>`.

\* However, some of these method calls require `<code>int</code>` values that

\* are defined only in the JDBC 2 or greater version of the

\* `{ @link java.sql.ResultSet ResultSet}` interface. For this reason, when the

\* product is compiled under JDK 1.1.x, these values are defined in

\* `{ @link JDBCResultSet JDBCResultSet}`.<p>

\*

\* In a JRE 1.1.x environment, calling JDBC 2 methods that take or return the

\* JDBC2-only `<code>ResultSet</code>` values can be achieved by referring

\* to them in parameter specifications and return value comparisons,

\* respectively, as follows: <p>

\*

```
* <pre class="JavaCodeExample">
* JDBCResultSet.FETCH_FORWARD
* JDBCResultSet.TYPE_FORWARD_ONLY
* JDBCResultSet.TYPE_SCROLL_INSENSITIVE
* JDBCResultSet.CONCUR_READ_ONLY
* // etc
* </pre>
*
```

\* However, please note that code written in such a manner will not be

\* compatible for use with other JDBC 2 drivers, since they expect and use

\* `<code>ResultSet</code>`, rather than `<code>JDBCResultSet</code>`. Also

\* note, this feature is offered solely as a convenience to developers

\* who must work under JDK 1.1.x due to operating constraints, yet wish to

\* use some of the more advanced features available under the JDBC 2

\* specification.<p>

\*

\* (fredt@users)<br>

\* (boucherb@users)

\* </div>

\* <!-- end release-specific documentation -->

\*

\* @author Campbell Burnet (boucherb@users dot sourceforge.net)

\* @author Fred Toussi (fredt@users dot sourceforge.net)

\* @version 2.3.4

\* @revised JDK 1.6, HSQLDB 2.0

\* @revised JDK 1.7, HSQLDB 2.0.1

\* @see org.hsqldb.dbinfo.DatabaseInformation

\* @see org.hsqldb.dbinfo.DatabaseInformationMain

\* @see org.hsqldb.dbinfo.DatabaseInformationFull

\*/

Found in path(s):

\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java

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*/
/* These are commands which may contain nested commands and/or which
* require the closing semicolon to send to the DB engine.
* The BEGIN and DECLARE needed for PL/SQL probably do not need to
* terminate the line, as we have it specified here, but I'd rather not be
* too liberal with proprietary SQL like this, because it's easy to
* envision other proprietary or non-proprietary commands beginning with
* DECLARE or BEGIN. */
```

Found in path(s):

```
*/opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-
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\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/util/CodeSwitcher.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/util/Transfer.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/util/TransferTable.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/util/SQLStatements.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
jar/org/hsqldb/util/TransferCommon.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-  
jar/org/hsqldb/util/DatabaseManagerCommon.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/util/Tree.java  
\* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/util/Grid.java

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\q to Quit.

\? lists Special Commands.

?: lists Edit-Buffer/History commands.

\*? lists PL commands.

/? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with '\ ' and execute when you hit ENTER.

EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.

PROCEDURAL LANGUAGE commands begin with '\*' and end when you hit ENTER.

MACRO executions and definitions begin with '/' and end when you hit ENTER.

All other lines comprise SQL Statements (or comments).

SQL Statements are terminated by either unquoted ';' (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).

After turning on variable expansion with command "\*" (or any other PL

command), PL variables may be used in most commands like so: `*{PLVARIABLE}`.

Be aware when using regular expressions on commands, that the `regex.s` operate only on the command text after the `*` or `\` prefix, if any.

Found in path(s):

`*/opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/cmdline/sqltool/SqlFile.banner.text`

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`*/opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/cmdline/SqlFile.java`

`*/opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/RoutineSchema.java`

`*/opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestJDBCSavepoints.java`

`*/opt/cola/permits/1135937091_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/LobStoreRAFile.java`

- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/RowStoreAVLMemory.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/TableUtil.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/BitMapCachedObject.java
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- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/ExpressionValue.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/jdbc/pool/JDBCXID.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/EventLogInterface.java
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- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/cmdline/sqltool.flex
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/tar/RB.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/rowio/RowOutputTextLog.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/IntArrayCachedObject.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestScriptRunner.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/lib/ValidatingResourceBundle.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/DirectoryBlockCachedObject.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/rowio/RowOutputInterface.java
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- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestDatetimeSimple.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/BlockObjectStore.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/test/TestScript.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/server/OdbcPacketOutputStream.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/Row.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/rights/GrantConstants.java
- \* /opt/cola/permits/1135937091\_1613638851.31/0/hsqldb-2-3-4-sources-2-jar/org/hsqldb/persist/RowStoreDataChange.java
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## 1.480 xml-apis-ext 1.3.04

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The actual DOM Java Language Binding classes in xml-commons came from:  
<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html>

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<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/>  
<http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/>  
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The specification of DOM Level 2's various parts is at:  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/>  
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The specification of DOM Level 1's various parts is at:  
<http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html>

Links to all available W3C DOM Java Bindings can be found at:  
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The actual classes of The Simple API for CSS (SAC) came from:  
<http://www.w3.org/Style/CSS/SAC/>  
<http://www.w3.org/2002/06/sacjava-1.3.zip>

The actual DOM Java Language Binding classes for SMIL came from:  
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# 1.481 jettison 1.4.1

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## 1.482 activation-api 1.1

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```
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/AbstractProcessTask.java  
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/MethodFilter.java  
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/ClassEmitter.java
```

\* /opt/cola/permits/1001048510\_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java  
\* /opt/cola/permits/1001048510\_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/LazyLoader.java  
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\* /opt/cola/permits/1001048510\_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java  
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Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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The project maintains the following source code repositories:

- \* <https://github.com/eclipse-ee4j/metro-xmlstreambuffer>
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<https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

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## 1.490 kxml 2.3.0

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/** Returns the token ID for start tags or the event type for wap proprietary events
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```
 * /opt/cola/permits/1000022004_1651084632.97/0/kxml2-2-3-0-sources-jar/org/kxml2/wap/WbxmlParser.java
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 * /opt/cola/permits/1000022004_1651084632.97/0/kxml2-2-3-0-sources-jar/org/kxml2/io/KXmlSerializer.java
```

```
 * /opt/cola/permits/1000022004_1651084632.97/0/kxml2-2-3-0-sources-jar/org/kxml2/wap/WbxmlSerializer.java
```

```
 * /opt/cola/permits/1000022004_1651084632.97/0/kxml2-2-3-0-sources-jar/org/kxml2/kdom/Document.java
```

```
 * /opt/cola/permits/1000022004_1651084632.97/0/kxml2-2-3-0-sources-jar/org/kxml2/wap/Wbxml.java
```

```
 * /opt/cola/permits/1000022004_1651084632.97/0/kxml2-2-3-0-sources-jar/org/kxml2/io/KXmlParser.java
```

```
 * /opt/cola/permits/1000022004_1651084632.97/0/kxml2-2-3-0-sources-jar/org/kxml2/kdom/Element.java
```

## 1.491 freemarker 2.3.19

# 1.492 jdom 2.0.5

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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/SAXEngine.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/XMLReaderSchemaFactory.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/AbstractReaderSchemaFactory.java
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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/StringBin.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/XMLReaderXSDFactory.java
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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/stax/DefaultStAXFilter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/SAXHandlerFactory.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/stax/StAXFilter.java
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Found in path(s):

- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dtdaware/AttFilteredXMLOutputProcessor.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/WalkerTRIM\_FULL\_WHITE.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/Walker.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/WalkerNORMALIZE.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedJDOMFactory.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/Located.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedComment.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedEntityRef.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedCDATA.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedElement.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedDocType.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/WalkerPRESERVE.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedProcessingInstruction.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-

jar/org/jdom2/output/support/WalkerTRIM.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-

jar/org/jdom2/contrib/dtdaware/AttAwareXMLOutputProcessor.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/located/LocatedText.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/LineSeparator.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/DefaultSAXHandlerFactory.java

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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/ids/IdDocument.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/input/scanner/ElementListener.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/ids/IdFactory.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/ids/IdAttribute.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/ids/IdElement.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/input/scanner/JakartaRegExpXPathMatcher.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/input/scanner/XPathMatcher.java



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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/input/LineNumberSAXHandler.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/input/LineNumberElement.java

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```
*/
/*
 * =====
 * Support methods for Text-content formatting. Should all be protected. The
 * following are used when printing Text-based data. Because of complicated
 * multi-sequential text sometimes the requirements are odd. All Text
 * content will be output using these methods, which is why there is the None
 * version.
 * =====
*/
```

Found in path(s):  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/AbstractOutputProcessor.java  
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```
/*--
```

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/PassThroughFilter.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/TextOnlyFilter.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/AbstractSAXOutputProcessor.java

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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/JDOMLocator.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/IllegalAddException.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/adapters/AbstractDOMAdapter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/verifier/VerifierBuilder.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/JDOMException.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/adapters/DOMAdapter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/IllegalTargetException.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/Filter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/UncheckedJDOMFactory.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/perf/SavingVerifier.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/adapters/JAXPDOMAdapter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/IllegalNameException.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/IllegalDataException.java



\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Verifier.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Namespace.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/DataConversionException.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/test/cases/TestElement.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/test/cases/TestAttribute.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/DOMOutputter.java

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- \* Support methods for Text-content formatting. Should all be protected. The
- \* following are used when printing Text-based data. Because of complicated
- \* multi-sequential text sometimes the requirements are odd. All Text
- \* content will be output using these methods, which is why there is the None

\* version.

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/beans/BeanMapperException.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/beans/JDOMBean.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/beans/StringConverter.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/input/scanner/ElementScanner.java  
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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/beans/TestIndexed.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/helpers/XPathHelper.java

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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/ClassFilter.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/stax/DTDParser.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/StAXEventOutputter.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/jaxen/JDOMNavigator.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/package-info.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/jaxen/NamespaceContainer.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/StAXStreamBuilder.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/StAXStreamOutputter.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/AttributeFilter.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/AttributeType.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/StAXEventBuilder.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/internal/ReflectionConstructor.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/util/NamespaceStack.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/internal/ArrayCopy.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/schema/ValidationError.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/schema/Schema.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/test/cases/TestCDATA.java  
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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/StAXEventProcessor.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/AbstractDOMOutputProcessor.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/SAXOutputProcessor.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/DOMOutputProcessor.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/AbstractStAXStreamProcessor.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/FormatStack.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/XMLOutputProcessor.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/support/AbstractStAXEventProcessor.java

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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/SAXBuilder.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/jaxen/JDOMXPath.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/NegateFilter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/helpers/JDOMHelper.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/XPathHelper.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/FilterIterator.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/XMLOutputter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/DOMBuilder.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/DocType.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Text.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/DescendantIterator.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/TextBuffer.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/EntityRef.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/AbstractFilter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Parent.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/OrFilter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/ProcessingInstruction.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Comment.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/JDOMFactory.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/SAXHandler.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/ContentFilter.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/DefaultJDOMFactory.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-



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jar/org/jdom2/input/JDOMParseException.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/AttributeList.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Attribute.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/Format.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/filter/AndFilter.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Element.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/output/SAXOutputter.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/CDATA.java
* /opt/cola/permits/1149086841_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/Document.java
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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/transform/JDOMSource.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/transform/JDOMResult.java

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- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JDOMConfiguration.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JSimpleCharacterContent.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/util/XPathDiagnosticImpl.java
- \* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/XPathBuilder.java

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\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/jaxen/JaxenXPathFactory.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JNamespace.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JNodeList.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/test/cases/xpath/AbstractTestXPathCompiled.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JNamespaceAware.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/jaxen/JDOMCoreNavigator.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JComment.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JProcessingInstruction.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JDocType.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/internal/SystemProperty.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/xpath/xalan/JDOM2DTM.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JContent.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/CloneBase.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JCDATA.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/XPathDiagnostic.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/util/AbstractXPathCompiled.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/util/IteratorIterable.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JDocument.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/Wrapper.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/sax/XMLReaderJAXPFactory.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JSimpleContent.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/jaxen/JDOM2Navigator.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JParent.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/XPathFactory.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/DOM.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JDOMImplementation.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/SlimJDOMFactory.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/input/stax/package-info.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/xpath/xalan/NamespacePointer.java

\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JEntityRef.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/xpath/XPathExpression.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JText.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JElement.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JNode.java  
\* /opt/cola/permits/1149086841\_1620942439.1/0/jdom2-2-0-5-sources-1-jar/org/jdom2/contrib/dom/JAttribute.java

# 1.493 maven-resolver-util 1.3.1

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- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WriteMarshallable.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WireType.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/ValueInState.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/VanillaMethodWriterBuilder.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/GenerateMethodReader.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/NanoDurationLongConverter.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WatermarkedMicroTimestampLongConverter.java
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- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WireMarshaller.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WireParselet.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/IntConverter.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/ObjectIntObjectConsumer.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/Base32LongConverter.java
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- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WireObjectInput.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WireDumper.java
- \* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-jar/net/openhft/chronicle/wire/WireObjectOutput.java
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\* /opt/cola/permits/1184885852\_1627645194.24/0/chronicle-wire-2-20-111-sources-



jar/net/openhft/chronicle/wire/ReadAnyWire.java

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* /opt/cola/permits/1184885852_1627645194.24/0/chronicle-wire-2-20-111-sources-
jar/net/openhft/chronicle/wire/VanillaMessageHistory.java
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INF/maven/net.openhft/chronicle-wire/pom.xml
```

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## 1.496 jaxb-runtime 2.3.2

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# 1.497 netty-codec 4.1.62.Final

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Manifest-Version: 1.0

Implementation-Title: Netty/Codec

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec

Implementation-Version: 4.1.62.Final

Built-By: norman

Bnd-LastModified: 1617128255368

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.google.protobuf;version="[2.6,3)";resolution:=optional,com.google.protobuf.nano;resolution:=optional,com.jcraft.jzlib;resolution:=optional,com.ning.compress;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf.util;version="[1.0,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",lzma.sdk;resolution:=optional,lzma.sdk.lzma;resolution:=optional,net.jpountz.lz4;resolution:=optional,net.jpountz.xxhash;resolution:=optional,org.jboss.marshalling;resolution:=optional,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.util";version="4.1.62",io.netty.handler.codec.base64;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.62",io.netty.handler.codec.bytes;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.62",io.netty.handler.codec.compression;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,net.jpountz.lz4";version="4.1.62",io.netty.handler.codec.json;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.62",io.netty.handler.codec.marshalling;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,org.jboss.marshalling";version="4.1.62",io.netty.handler.codec.protobuf;uses:="com.google.protobuf,com.google.protobuf.nano,io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.62",io.netty.handler.codec.serialization;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.62",io.netty.handler.codec.string;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.62",io.netty.handler.codec.xml;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.62"

Bundle-Name: Netty/Codec

Bundle-Version: 4.1.62.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-codec/>

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\* /opt/cola/permits/1171712262\_1623127829.88/0/netty-codec-4-1-62-final-jar/META-INF/MANIFEST.MF

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# 1.501 batik-transcoder 1.11

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```

```
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```

```
{% endif %}
```

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
    Either create a single parameter accepting the Tuple2,  
    or consider a pattern matching anonymous function: ` { case (a, b) => ... }  
val x: ((Int, Int) => Int) = (((a, b)) => a)  
      ^
```

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
    Either create a single parameter accepting the Tuple2,  
    or consider a pattern matching anonymous function: ` { case (param1, param2) => ... }  
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)  
      ^
```

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
    Either create a single parameter accepting the Tuple3,  
    or consider a pattern matching anonymous function: ` { case (param1, ..., param3) => ... }  
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)  
      ^
```

three errors found

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 */
```

Found in path(s):

```
* /opt/cola/permits/1151111197_1617788586.13/0/swagger-jaxrs-1-5-9-sources-4-
jar/io/swagger/jaxrs/config/ReaderListener.java
* /opt/cola/permits/1151111197_1617788586.13/0/swagger-jaxrs-1-5-9-sources-4-jar/io/swagger/jaxrs/Reader.java
```

## 1.509 enunciate-core-rt 1.29

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```
<html>
<head>
  <title>Enunciate's Relational State Transfer (REST) Model</title>
</head>
<body>
  <h1>Introduction</h1>
  <p>
    Enunciate's REST model is used to provide the metadata required to publish web services in
    a RESTful manner. The REST model encourages adherence to the fundamental design principles of
    REST, i.e.:
  </p>
  <ul>
```

- <li>Application state and functionality are divided into resources</li>
- <li>Every resource is uniquely addressable via URL</li>
- <li>All resources share a uniform interface for the transfer of state between client and resource, consisting of a constrained set of well-defined operations</li>

- <li>A protocol that is:

  - <ul>

  - <li>Client/Server</li>

  - <li>Stateless</li>

  - <li>Cacheable</li>

  - <li>Layered</li>

  - </ul>

- </li>

- </ul>

<p>

(see <a href="http://en.wikipedia.org/wiki/Representational\_State\_Transfer">Representational State Transfer on Wikipedia</a>)

</p>

<p>

Enunciate's REST model encourages adherence to these principles by applying a mapping between REST resources/methods and

Java web operations.

</p>

## <h1>Applying a REST Model</h1>

<p>

The invocation of a RESTful web operation can be associated metaphorically with an English sentence. Each sentence has a verb,

a noun (possibly a proper noun), and an optional set of adjectives that describe the verb and the noun, respectively.

Likewise, a RESTful web operation has a verb (constrained to a small set, e.g. create, read, update, and delete), a noun (i.e.

a resource), and optionally a set of adjectives that describe more specifically on <i>what kind</i> of noun to perform the action.

Each Java web operation that is mapped to RESTful invocation is assigned a verb, a noun, and an optional set of adjectives.

Some verbs also support a "noun value" that is the value that is to be associated with the noun.

</p>

## <h2>Verbs and Nouns</h2>

<p>

In its simplest form, a void no-arg method can be invoked when its verb is applied to its noun. Assuming HTTP, the verb is the

HTTP method, and the noun is identified by the URL. For example, consider a Java method defined like so:

</p>

```
<code>
```

```
public void ping();
```

```
</code>
```

<p>

If the verb "create" and the noun "ping" are assigned to the method, the "sentence" associated with this method

becomes "Create a ping.", and

it could be invoked RESTfully over HTTP 1.1 by sending the following over a TCP connection to the endpoint:

```
</p>
<code>
  PUT /ping HTTP/1.1
</code>
<h2>Proper Nouns</h2>
<p>
```

It is often desirable to perform an action on a *specific* noun. Nouns are identified in English sentences by the use of a

"proper noun." The noun "person," for example, is often identified specifically through the use of a name, e.g. "Bob." Consider, then,

a Java method that is used to retrieve a specific person object out of a database:

```
</p>
<code>
  public Person getPerson(String personId);
</code>
<p>
```

If the verb "read" and the noun "person" were assigned to the method, and the parameter "personId" was identified as a proper noun, the

"sentence" associated with this method becomes "get person 12345" where "12345" is the value of the parameter.

It could be invoked

RESTfully over HTTP 1.1 by sending the following over a TCP connection to the endpoint:

```
</p>
<code>
  GET /person/12345 HTTP/1.1
</code>
<h2>Adjectives</h2>
<p>
```

While REST implies the use of only one noun (possibly identified by a proper noun), there could be additional parameters to a method invocation

adding specificity to *what kind* of noun to invoke the method on. Consider the following Java method used to find a person by name and birthday (note that in this case, there is no parameter identified as a proper noun):

```
</p>
<code>
  public Person findPerson(String name, java.util.Date birthday);
</code>
<p>
```

If the verb "read" and the noun "person" were assigned to this method, and the parameters used were "Bob" and "01.01.2006" for the name and

birthday respectively, the "sentence" associated with this method becomes "find the person whose name is 'Bob' and whose birthday is '01.01.2006'". It

could be invoked RESTfully over HTTP 1.1 by sending the following over a TCP connection to the endpoint:

```
</p>
<code>
  GET /person?name=Bob&birthday=01.01.2006 HTTP/1.1
</code>
```

## <h1>XML Marshalling/Unmarshalling</h1>

<p>

Enunciate uses JAXB 2.0 to marshal and unmarshal Java objects to/from XML. Since the proper noun and all adjectives must be put on a URL, Enunciate requires

the proper noun and all adjectives to be JAXB 2.0 simple types, which means the parameter types of for the adjectives must have a single value element

with no attributes. Built-in, these types include the Java primitive types, their associated wrapper classes, java.lang.String, and enums. There is a

special exception that adjectives can be a collection or array of simple types.

</p>

<p>

If there is a parameter type that is a complex type, it must be specified as the noun value for the method. Only the "create" and "update" verbs support

a noun value, and only one noun value can be specified per method. Furthermore, complex objects must be JAXB 2.0 root elements in order to correctly.

marshal and unmarshal. The return type of a method, if exists, must always be a JAXB 2.0 root element.

</p>

<p>

At this time, Enunciate does not enable XOP. All binary data is serialized as base64-encoded data.

</p>

## <h1>Exceptions</h1>

<p>

Exceptions that are thrown will result in an HTTP response code and message. The default error code is 500. Currently, the content of the HTTP response

for errors is container-specific and undefined.

</p>

## <h1>Create, Read, Update, Delete</h1>

<p>

REST constrains the set of verbs that can be applied to the available resources. The Enunciate REST Model defines this set to be { "create", "read", "update", "delete" }. Since Enunciate currently only supports HTTP as the RESTful invocation mechanism,

it associates this set of verbs with HTTP methods "PUT," "GET," "POST," and "DELETE". The following describes how each verb is applied to

its associated noun and adjectives.

</p>

### <h2>Create</h2>

<p>

The "create" verb is mapped to the HTTP method "PUT." There are no constraints on its use in terms of a proper noun or adjectives, but to "create" a noun

often implies the use of a noun value.

</p>

<p>

<b>Example:</b>

</p>

<code>

```
void createPerson(Person value);
```

```
</code>
```

```
<p>
```

```
<b>HTTP invocation</b>:
```

```
</p>
```

```
<code>
```

```
PUT /person HTTP/1.1<br/>
```

```
Content-Type: text/xml<br/><br/>
```

```
&lt;person&gt;&lt;name&gt;Bob&lt;/name&gt;&lt;birthday&gt;01.01.2006&lt;/birthday&gt;&lt;/person&gt;
```

```
</code>
```

```
<h2>Read</h2>
```

```
<p>
```

Read is the default verb. It is mapped to the HTTP method "GET." The "read" verb does not support the use of a noun value. The read verb often,

but not always, implies a proper noun and an optional set of adjectives.

```
</p>
```

```
<p>
```

```
<b>Example:</b>
```

```
</p>
```

```
<code>
```

```
Person getPerson(String personId);
```

```
</code>
```

```
<p>
```

```
<b>HTTP invocation</b>:
```

```
</p>
```

```
<code>
```

```
GET /person/12345 HTTP/1.1<br/><br/>
```

```
</code>
```

```
<h2>Update</h2>
```

```
<p>
```

The "update" verb is mapped to the HTTP method "POST." The only real difference between the "update" verb and the "create" verb is that the "update"

verb more often implies a proper noun.

```
</p>
```

```
<p>
```

```
<b>Example:</b>
```

```
</p>
```

```
<code>
```

```
void updatePerson(String personId, Person value);
```

```
</code>
```

```
<p>
```

```
<b>HTTP invocation</b>:
```

```
</p>
```

```
<code>
```

```
POST /person/12345 HTTP/1.1<br/>
```

Content-Type: text/xml<br/><br/>

```
<person><name>Bob</name><birthday>01.01.2006</birthday></person>
</code>
```

```
<h2>Delete</h2>
```

```
<p>
```

The "delete" verb is mapped to the HTTP method "DELETE." Like the "read" verb, this verb does not support a noun value.

```
</p>
```

```
<p>
```

```
<b>Example:</b>
```

```
</p>
```

```
<code>
```

```
void deletePerson(String personId);
```

```
</code>
```

```
<p>
```

```
<b>HTTP invocation</b>:
```

```
</p>
```

```
<code>
```

```
DELETE /person/12345 HTTP/1.1<br/><br/>
```

```
</code>
```

```
</body>
```

```
</html>
```

Found in path(s):

```
* /opt/cola/permits/1285439999_1646917429.38/0/enunciate-core-rt-1-29-sources-
jar/org/codehaus/enunciate/rest/package.html
```

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```
/*
```

```
* Copyright 2006-2008 Web Cohesion
```

```
*
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1285439999_1646917429.38/0/enunciate-core-rt-1-29-sources-
```

jar/org/codehaus/enunciate/webapp/ComponentPostProcessor.java  
\* /opt/cola/permits/1285439999\_1646917429.38/0/enunciate-core-rt-1-29-sources-  
jar/org/codehaus/enunciate/webapp/IDLFilter.java  
\* /opt/cola/permits/1285439999\_1646917429.38/0/enunciate-core-rt-1-29-sources-  
jar/org/codehaus/enunciate/webapp/HTTPRequestContext.java  
\* /opt/cola/permits/1285439999\_1646917429.38/0/enunciate-core-rt-1-29-sources-  
jar/org/codehaus/enunciate/webapp/WSDLRedirectFilter.java  
\* /opt/cola/permits/1285439999\_1646917429.38/0/enunciate-core-rt-1-29-sources-  
jar/org/codehaus/enunciate/service/DefaultSecurityExceptionChecker.java  
\* /opt/cola/permits/1285439999\_1646917429.38/0/enunciate-core-rt-1-29-sources-  
jar/org/codehaus/enunciate/service/SecurityExceptionChecker.java  
\* /opt/cola/permits/1285439999\_1646917429.38/0/enunciate-core-rt-1-29-sources-  
jar/org/codehaus/enunciate/webapp/HTTPRequestContextFilter.java  
\* /opt/cola/permits/1285439999\_1646917429.38/0/enunciate-core-rt-1-29-sources-  
jar/org/codehaus/enunciate/rest/MimeType.java

# 1.510 tomcat-catalina 9.0.58

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* /opt/cola/permits/1277350012_1645728838.57/0/pax-url-aether-support-2-6-7-sources-  
jar/org/eclipse/aether/internal/impl/PaxLocalRepositoryManager.java
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\* /opt/cola/permits/1171712276\_1623127845.45/0/netty-resolver-4-1-62-final-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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Manifest-Version: 1.0

Implementation-Title: Netty/Resolver

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.resolver

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.resolver

Implementation-Version: 4.1.62.Final

Built-By: norman

Bnd-LastModified: 1617128233709

Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: https://netty.io/  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";version="4.1.62"  
Bundle-Name: Netty/Resolver  
Bundle-Version: 4.1.62.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: https://netty.io/netty-resolver/

Found in path(s):

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# 1.519 commonj-sdo 2.1.1

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Revision level 1.2, last updated on 2009/01/13

Changed the URL of the Artifacts.

Revision level 1.1, last updated on 2007/11/19

## 1.520 snake-yaml 1.24

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\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/InterpolationCycleException.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixd/AbstractDelegatingValueSource.java  
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\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/object/ObjectInterpolator.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/AbstractValueSource.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/PropertiesBasedValueSource.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/PrefixedValueSourceWrapper.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/FeedbackEnabledValueSource.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/Interpolator.java  
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\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/AbstractFunctionValueSourceWrapper.java  
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- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/ObjectBasedValueSource.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/PropertiesBasedValueSource.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/EnvarBasedValueSource.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/FixedStringSearchInterpolator.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/FixedValueSource.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/PrefixedObjectValueSource.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/MapBasedValueSource.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixe/InterpolationState.java

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- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/util/ValueSourceUtils.java
- \* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/reflection/ReflectionValueExtractor.java

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\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/EnumBasedValueSource.java

\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/MapBasedValueSource.java

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\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/multi/DelimiterSpecification.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/multi/MultiDelimiterStringSearchInterpolator.java  
\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/SingleResponseValueSource.java  
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\* Determines if the current OS matches the given OS

\* version.

\*

\* @param version the OS version to check for

\* @return true if the OS matches

\* @since 1.0

\*/

Found in path(s):

\* /opt/cola/permits/1264222488\_1643762992.84/0/plexus-interpolation-1-25-sources-  
jar/org/codehaus/plexus/interpolation/os/Os.java

# 1.522 jetty-servlet 9.4.28.v20200408

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#### Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.525 jaxb-api 2.3.1

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## 1.527 batik-dom 1.11

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Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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## Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas



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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.534 commons-io 1.3.2

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# 1.535 activemq-shiro 5.16.1

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.537 maven-settings 3.6.0

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\* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/LineReaderBuilder.java

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- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/EndOfFileException.java
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- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Widget.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Reference.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/keymap/KeyMap.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/package-info.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Parser.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/UserInterruptException.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Expander.java
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- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/completer/package-info.java
- \* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Highlighter.java
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\* /opt/cola/permits/1260642180\_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/EOFError.java

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\* /opt/cola/permits/1145056900\_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/FixedBufferCodec.java  
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## 1.555 jetty-util 6.1.26

# 1.556 jakarta-annotation-api 1.3.5

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\* /opt/cola/permits/1184885785\_1627645173.37/0/affinity-3-20-0-sources-jar/net/openhft/affinity/impl/VanillaCpuLayout.java  
\* /opt/cola/permits/1184885785\_1627645173.37/0/affinity-3-20-0-sources-jar/net/openhft/affinity/AffinityLock.java  
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\* /opt/cola/permits/1184885785\_1627645173.37/0/affinity-3-20-0-sources-jar/net/openhft/affinity/impl/LinuxJNAffinity.java

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From strings/apr\_sprintf.c:

\*  
\* cvt - IEEE floating point formatting routines.  
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# 1.564 jetty-client 9.4.28.v20200408

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- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.565 jaxb-core 2.2.4

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## 1.568 slf4j 1.7.30

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```
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<body>  
<p>  
Class, field, and method level annotations for describing thread-safety policies.  
</p>
```

```
<p>  
Three class-level annotations describe the intended thread-safety promises of a class:  
<code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>.  
<code>@Immutable</code> means that the class is immutable,  
and implies <code>@ThreadSafe</code>.  
<code>@NotThreadSafe</code> is optional;  
if a class is not annotated as thread-safe, it should be presumed not to be  
thread-safe, but if you want to make it extra clear, use  
<code>@NotThreadSafe</code>.  
</p>
```

```
<p>  
These annotations are relatively unintrusive and are beneficial to  
both users and maintainers. Users can see immediately whether a class  
is thread-safe, and maintainers can see immediately whether  
thread-safety guarantees must be preserved. Annotations are also  
useful to a third constituency: tools. Static code-analysis tools may  
be able to verify that the code complies with the contract indicated  
by the annotation, such as verifying that a class annotated with  
<code>@Immutable</code> actually is immutable.  
</p>
```

### <h2>Field and method annotations</h2>

```
<p>  
The class-level annotations above are part of the public documentation  
for the class. Other aspects of a class's thread-safety strategy are  
entirely for maintainers and are not part of its public documentation.  
</p>
```

<p>

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

</p>

<p>

The `@GuardedBy(lock)` annotation documents that a field or method should be accessed only with a specific lock held.

</p>

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</body>

</html>

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The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

-----  
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.577 jcl-over-slf4j 1.6.6

## 1.578 pax-url-aether 2.6.7

### 1.578.1 Available under license :

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\* /opt/cola/permits/1184885815\_1627645177.3/0/pax-url-aether-2-6-7-sources-jar/org/ops4j/pax/url/mvn/MavenResolver.java

\* /opt/cola/permits/1184885815\_1627645177.3/0/pax-url-aether-2-6-7-sources-jar/org/ops4j/pax/url/mvn/MavenResolvers.java

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\* /opt/cola/permits/1184885815\_1627645177.3/0/pax-url-aether-2-6-7-sources-jar/org/ops4j/pax/url/mvn/internal/ManualWagonProvider.java

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jar/org/ops4j/pax/url/mvn/Handler.java

```

# 1.579 tiger-types 1.4

## 1.579.1 Available under license :

```

<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/47" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/CDDL-1.0" />
  <meta name="MobileOptimized" content="width" />
  <title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

```

```

<!--[if lt IE 9]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ol0qr1" media="all" />
<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKak2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"Qt73Xdx7obPk_s
4eeCH7buQWxzLFf5Um2HpId-Siv9s"},"js":{"\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js

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\bootstrap.min.js":1,"1":1,"sites\all\libraries\superfish\jquery.hoverIntent.minified.js":1,"sites\all\libraries\superfish\sftouchscreen.js":1,"sites\all\libraries\superfish\sfsmallscreen.js":1,"sites\all\libraries\superfish\supposition.js":1,"sites\all\libraries\superfish\superfish.js":1,"sites\all\libraries\superfish\supersubs.js":1,"sites\all\modules\superfish\superfish.js":1,"sites\all\themes\bootstrap-business\js\jquery.browser.min.js":1},"css":{"modules\system\system.base.css":1,"modules\system\system.menus.css":1,"modules\system\system.messages.css":1,"modules\system\system.theme.css":1,"modules\aggregator\aggregator.css":1,"modules\comment\comment.css":1,"modules\field\theme\field.css":1,"sites\all\modules\mollom\mollom.css":1,"modules\node\node.css":1,"modules\search\search.css":1,"modules\user\user.css":1,"sites\all\modules\views\css\views.css":1,"sites\all\modules\ctools\css\ctools.css":1,"\maxcdn.bootstrapcdn.com\bootstrap\3.2.0\css\bootstrap.min.css":1,"sites\all\libraries\superfish\css\superfish.css":1,"sites\all\themes\bootstrap-business\css\style.css":1,"sites\all\themes\bootstrap-business\color\colors.css":1,"sites\all\themes\bootstrap-business\css\local.css":1,"sites\all\themes\bootstrap-business\css\ie8.css":1}},"urlIsAjaxTrusted":{"\licenses\cddl1.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width"},"addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-47 node-type-page" >
  <div id="skip-link">
    <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
  </div>
  <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
              <div id="block-menu-secondary-menu" class="block block-menu clearfix">

                <div class="content">
                  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
                  <li class="leaf"><a href="/blog" title="">From the Board</a></li>
                  <li class="leaf"><a href="/contact" title="">Contact</a></li>
                  <li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>

```

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</ul> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-left -->
</div>

    <div class="col-md-4">
    <!-- #header-top-right -->
    <div id="header-top-right" class="clearfix">
        <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/cddl1.php" method="post" id="search-block-form" accept-charset="UTF-8"><div><div
class="container-inline">
    <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /><input type="hidden" name="form_build_id" value="form-
bHQObyvdpYpP9q-Fw-RUMqMbj_-M2JMQxkrV017VnrI" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-right -->
</div>

    </div>
</div>
<!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

```

```

<!-- #header-inside -->
<div id="header-inside" class="clearfix">
  <div class="row">
    <div class="col-md-8">

      <div id="logo">
        <a href="/" title="Home" rel="home">  </a>
      </div>

      <div id="site-name">
        <a href="/" title="Home">Open Source Initiative</a>
      </div>

    </div>

    <div class="col-md-4">

  </div>
</div>
<!-- EOF: #header-inside -->

</div>
</header>
<!-- EOF: #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">

    <!-- #main-navigation-inside -->
    <div id="main-navigation-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <nav role="navigation">
            <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
  <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle

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even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a href="/conflict\_of\_interest\_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines" title="OSI's Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Rules for posting content on this site" class="sf-depth-2">Terms of Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1 menuparent">Licenses</a><ul><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a><ul><li id="menu-62-1" class="firststandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with explanations and rationale interspersed." class="sf-depth-3">OSD - Annotated</a></li></ul></li><li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/licenses/category" title="Licenses by Category" class="sf-depth-2">Licenses by Category</a></li><li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="/licenses/alphabetical" title="Licenses that are approved by the OSI as conforming to the OSD" class="sf-depth-2">Licenses by Name</a></li><li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/approval" title="Certifying licences as OSD-compliant" class="sf-depth-2 menuparent">License Review Process</a><ul><li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/proliferation" title="Supporting choice while maintaining sanity" class="sf-depth-3">Licence Proliferation</a></li><li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/proliferation-report" title="License Proliferation Committee's report to the OSI Board" class="sf-depth-3">LP report to the Board</a></li></ul></li><li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/osr-intro" title="Open Standards Requirement for Software" class="sf-depth-2 menuparent">Open Standards</a><ul><li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osr" title="An "open standard" must not prohibit conforming implementations in open source software." class="sf-depth-3">The Open Standards Requirement</a></li><li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/osr-compliance" class="sf-depth-3">Open Standards Requirement Compliance</a></li><li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/osr-rationale" class="sf-depth-3">Open Standards Requirement Rationale</a></li><li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/osr-faq" title="Frequently asked questions about the Open Standards Requirement" class="sf-depth-3">OSR Frequently Asked Questions</a></li></ul></li></ul></li></ul>

id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent"><a href="/membership" title="Page for our various membership programs" class="sf-depth-1 menuparent">Membership</a><ul><li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/members" class="sf-depth-2 menuparent">Individuals</a><ul><li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/civicrm/contribute/transact?reset=1&id=1" title="" class="sf-depth-3">Join</a></li></ul></li><li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent"><a href="/affiliates" title="Home page for OSI&#039;s membership scheme for non-profits and not-for-profits" class="sf-depth-2 menuparent">Affiliates</a><ul><li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/affiliates/about" title="" class="sf-depth-3">Become an Affiliate</a></li><li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/affiliates/list" title="Full list of non-profits and not-for-profits affiliated to OSI" class="sf-depth-3">List of Affiliates</a></li><li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children"><a href="/AffiliateRequirements" class="sf-depth-3">Affiliate Criteria</a></li></ul></li><li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children"><a href="/sponsors" class="sf-depth-2">Sponsors & Support</a></li></ul></li><li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent"><a href="/community" title="Page for our various community members." class="sf-depth-1 menuparent">Community</a><ul><li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/lists" title="The virtual committees where the OSI&#039;s work gets done" class="sf-depth-2 menuparent">Mailing lists</a><ul><li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/codeofconduct" title="Guidelines for OSI Mailing Lists" class="sf-depth-3">General Code of Conduct</a></li><li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/codeofconduct/licensing" class="sf-depth-3">Licensing Code of Conduct</a></li><li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/public\_forums\_disclaimer" class="sf-depth-3">Disclaimer for OSI Public Forums</a></li><li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/public\_archives\_policy" class="sf-depth-3">Policy on Public Communications and Archives</a></li></ul></li><li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/volunteers" class="sf-depth-2">Volunteers</a></li><li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="http://wiki.opensource.org" title="" class="sf-depth-2">Wiki</a></li><li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/store" class="sf-depth-2">OSI Store</a></li></ul></li><li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources" title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources</a><ul><li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions about open source and about the OSI." class="sf-depth-2">FAQ</a></li><li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/blog" title="A group blog / aggregation point for OSI Board Member blogs" class="sf-depth-2">OSI Board Blog</a></li><li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/help" title="Resources for questions and further exploration" class="sf-depth-2 menuparent">Getting Help</a><ul><li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/links" title="Links and References to Open Source" class="sf-depth-3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/advocacy/case\_for\_business.php" title="How to advocate Open Source to businesses" class="sf-depth-3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children"><a href="/working\_groups" class="sf-depth-2">Working Groups</a></li><li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children"><a href="/osi-open-source-education" title="OSI&#039;s Open Source Education Initiative and Activities" class="sf-depth-2">Open Source Education</a></li></ul></li><li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and



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events." class="sf-depth-1 menuparent">News & Events</a><ul><li id="menu-1845-1" class="first odd sf-item-1
sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-
2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a
href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
</div>
</div>
```

```
</nav>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation-inside -->
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation -->
```

```
<!-- #page -->
```

```
<div id="page" class="clearfix">
```

```
<!-- #main-content -->
```

```
<div id="main-content">
```

```
<div class="container">
```

```
<!-- #messages-console -->
```

```
<!-- EOF: #messages-console -->
```

```
<div class="row">
```

```
<section class="col-md-12">
```

```
<!-- #main -->
```

```
<div id="main" class="clearfix">
```

```
<!-- EOF:#content-wrapper -->
```

```
<div id="content-wrapper">
```

```
<h1 class="page-title">Common Development and Distribution
```

```
License (CDDL-1.0)</h1>
```

```
<!-- #tabs -->
```

```
<div class="tabs">
```

```

        </div>
        <!-- EOF: #tabs -->

        <!-- #action links -->
        <!-- EOF: #action links -->

        <div class="region region-content">
        <div id="block-system-main" class="block block-system clearfix">

<div class="content">
    <article id="node-47" class="node node-page clearfix">

<div class="content">
    <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><div align="right">
<button onclick="myFunction()">Further resources on <b>CDDL-1.0</b></button>

<p id="demo"></p>

<script>
<!--/--><![CDATA[// ><!--

function myFunction() {
    var x;
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
        x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained
style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License
List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
    } else {
        x = " ";
    }
    document.getElementById("demo").innerHTML = x;
}

//--><![ ]>
</script></div>

```

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Version 1.0 (CDDL-1.0)

([text](cddl1.txt))

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</li></ul></div></div></div> </div>

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

<!-- EOF:#main-content -->

</div>

<!-- EOF:#page -->

```

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

              <div class="region region-footer">
<div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![]]>
</script></p>
</div>

```

```

<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
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href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="..ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>

      </div>
      <!-- EOF: #subfooter-left -->
    </div>
  </div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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## Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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-----

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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:



- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

## XML Remote Procedure Calls

-----

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`test_epoll`

-----

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Select kqueue

-----

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-----  
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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphash24/little)

djb (supercop/crypto\_auth/siphash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----  
The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

-----

The implementation of the hash table used by the `:mod:`tracemalloc`` is based



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\* /opt/cola/permits/1001158872\_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/UUDecoderStream.java  
\* /opt/cola/permits/1001158872\_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/MemoryData.java  
\* /opt/cola/permits/1001158872\_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/FactoryFinder.java  
\* /opt/cola/permits/1001158872\_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/BASE64DecoderStream.java  
\* /opt/cola/permits/1001158872\_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/MIMEMessage.java  
\* /opt/cola/permits/1001158872\_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/MIMEParser.java  
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## 1.594 sqlite 3.27.2

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.597 jetty-jaspi 9.4.28.v20200408

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The following artifacts are EPL and ASL2.  
\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

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## Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.598 jetty-util-ajax 9.4.39.v20210325

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- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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org.mortbay.jasper:apache-jsp  
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org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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Assorted

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# 1.604 quartz 2.3.0

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```
* /opt/cola/permits/1257784256_1643012183.02/0/oauth-provider-20100527-sources-
jar/net/oauth/OAuthValidator.java
* /opt/cola/permits/1257784256_1643012183.02/0/oauth-provider-20100527-sources-
jar/net/oauth/SimpleOAuthValidator.java
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## 1.608 psutil 5.4.8

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\* /opt/cola/permits/1144733808\_1616570376.09/0/pfl-tf-tools-4-0-1-sources-1-jar/org/glassfish/pfl/tf/tools/enhancer/EnhanceTool.java

\* /opt/cola/permits/1144733808\_1616570376.09/0/pfl-tf-tools-4-0-1-sources-1-jar/org/glassfish/pfl/tf/tools/enhancer/ClassEnhancer.java

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\* /opt/cola/permits/1144733808\_1616570376.09/0/pfl-tf-tools-4-0-1-sources-1-jar/org/glassfish/pfl/tf/tools/enhancer/StaticInitVisitor.java

\* /opt/cola/permits/1144733808\_1616570376.09/0/pfl-tf-tools-4-0-1-sources-1-jar/org/glassfish/pfl/tf/tools/enhancer/SimpleMethodTracer.java

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\* /opt/cola/permits/1144733808\_1616570376.09/0/pfl-tf-tools-4-0-1-sources-1-jar/org/glassfish/pfl/tf/tools/enhancer/AnnotationScannerAction.java

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The primary ANTLR guy:

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## 1.611 hibernate-testing 3.6.0.Final

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## 1.612 jackson-mapper-asl 1.9.13

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\* /opt/ws\_local/PERMITS\_SQL/1078286973\_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-jar/org/codehaus/jackson/map/MappingJsonFactory.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/DefaultAddressedEnvelope.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/group/DefaultChannelGroup.java  
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jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/group/ChannelGroupException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelProgressiveFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/AddressedEnvelope.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/AbstractEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
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jar/io/netty/channel/SimpleChannelInboundHandler.java  
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jar/io/netty/channel/DefaultChannelProgressivePromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/group/ChannelMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelProgressiveFutureListener.java  
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\*/  
 /\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
 \* its { @link ChannelPipeline}.

\*  
 \* <h3>Sub-types</h3>  
 \* <p>  
 \* { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its  
 subtypes:  
 \* <ul>  
 \* <li>{ @link ChannelInboundHandler} to handle inbound I/O events, and</li>  
 \* <li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* Alternatively, the following adapter classes are provided for your convenience:  
 \* <ul>  
 \* <li>{ @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>  
 \* <li>{ @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>  
 \* <li>{ @link ChannelDuplexHandler} to handle both inbound and outbound events</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* For more information, please refer to the documentation of each subtype.  
 \* </p>  
 \*  
 \* <h3>The context object</h3>  
 \* <p>  
 \* A { @link ChannelHandler} is provided with a { @link ChannelHandlerContext}  
 \* object. A { @link ChannelHandler} is supposed to interact with the  
 \* { @link ChannelPipeline} it belongs to via a context object. Using the  
 \* context object, the { @link ChannelHandler} can pass events upstream or  
 \* downstream, modify the pipeline dynamically, or store the information  
 \* (using { @link AttributeKey}s) which is specific to the handler.  
 \*  
 \* <h3>State management</h3>  
 \*  
 \* A { @link ChannelHandler} often needs to store some stateful information.  
 \* The simplest and recommended approach is to use member variables:

```

* <pre>
* public interface Message {
*   // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; {
*
*   <b>private boolean loggedIn;</b>
*
*   { @code @Override }
*   public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       <b>loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*       if (<b>loggedIn</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*       } else {
*         fail();
*       }
*     }
*   }
*   ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to
\* one connection, you have to create a new handler instance for each new
\* channel to avoid a race condition where a unauthenticated client can get
\* the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*   { @code @Override }
*   public void initChannel({ @link Channel } channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*   }
* }
*
* </pre>

```

\* <h4>Using { @link AttributeKey }s</h4>

\* Although it's recommended to use member variables to store the state of a
\* handler, for some reason you might not want to create many handler instances.

\* In such a case, you can use { @link AttributeKey }s which is provided by
\* { @link ChannelHandlerContext }:

```

* <pre>

```



```

* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; {
*     private final { @link AttributeKey } &lt; { @link Boolean } &gt; auth =
*         { @link AttributeKey #valueOf(String) AttributeKey.valueOf("auth") };
*
*     { @code @Override }
*     public void channelRead({ @link ChannelHandlerContext } ctx, Message message) {
*         { @link Attribute } &lt; { @link Boolean } &gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else if (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>

```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

```

\* <h4>The { @code @Sharable } annotation</h4>

\* <p>

\* In the example above which used an { @link AttributeKey }, you might have noticed the { @code @Sharable } annotation.

\* <p>

\* If a { @link ChannelHandler } is annotated with the { @code @Sharable } annotation, it means you can create an instance of the handler just once and

- \* add it to one or more { @link ChannelPipeline}s multiple times without
- \* a race condition.
- \* <p>
- \* If this annotation is not specified, you have to create a new handler
- \* instance every time you add it to a pipeline because it has unshared state
- \* such as member variables.
- \* <p>
- \* This annotation is provided for documentation purpose, just like
- \* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
- \*
- \* <h3>Additional resources worth reading</h3>
- \* <p>
- \* Please refer to the { @link ChannelHandler}, and
- \* { @link ChannelPipeline} to find out more about inbound and outbound operations,
- \* what fundamental differences they have, how they flow in a pipeline, and how to handle
- \* the operation in your application.
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelHandler.java

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- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java

- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/internal/package-info.java

- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/FailedChannel.java

- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PendingBytesTracker.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/DatagramChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannel.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-

jar/io/netty/channel/oio/AbstractOioChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/FixedRecvByteBufAllocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/socket/nio/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/bootstrap/ServerBootstrap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/DefaultFileRegion.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelPipelineException.java  
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jar/io/netty/channel/FileRegion.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelPipeline.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelMetadata.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/EventLoopException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelPromiseAggregator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/DefaultEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-

jar/io/netty/channel/ChannelHandlerContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/socket/DatagramChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/nio/NioEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ChannelInitializer.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/ServerChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/local/LocalChannelRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/EventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/DefaultChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/oio/OioEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/RecvByteBufAllocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/bootstrap/Bootstrap.java  
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jar/io/netty/channel/socket/ServerSocketChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/bootstrap/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
jar/io/netty/channel/oio/AbstractOioByteChannel.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/DuplexChannel.java

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jar/io/netty/channel/WriteBufferWaterMark.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-

jar/io/netty/channel/group/VoidChannelGroupFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-

jar/io/netty/bootstrap/BootstrapConfig.java

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jar/io/netty/channel/CoalescingBufferQueue.java

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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
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jar/io/netty/channel/ExtendedClosedChannelException.java
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

#### THE BASIC LIBRARY FUNCTIONS

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Email domain: cam.ac.uk

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Cambridge, England.

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Email local part: hzmester  
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## STACK-LESS JUST-IN-TIME COMPILER

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Email local part: hzmester  
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[AsmJit]

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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\*/

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[zlib]

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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[fp16]

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[dialyzer]

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[edoc, syntax\_tools]

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[eunit]

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[leex]

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# 1.628 jackson 1.9.13

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 */
```

Found in path(s):

```
* /opt/cola/permits/1302535166_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-
jar/javax/security/auth/message/module/ServerAuthModule.java
* /opt/cola/permits/1302535166_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-
jar/javax/security/auth/message/config/ServerAuthContext.java
* /opt/cola/permits/1302535166_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-
jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /opt/cola/permits/1302535166_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-
jar/javax/security/auth/message/module/ClientAuthModule.java
* /opt/cola/permits/1302535166_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-
jar/javax/security/auth/message/MessagePolicy.java
```



\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/config/ClientAuthContext.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/config/ServerAuthConfig.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/AuthStatus.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/ClientAuth.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/config/RegistrationListener.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/callback/CertStoreCallback.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/config/AuthConfigProvider.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/config/AuthConfig.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/config/AuthConfigFactory.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/MessageInfo.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/callback/PrivateKeyCallback.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/callback/SecretKeyCallback.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/callback/TrustStoreCallback.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/AuthException.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/config/ClientAuthConfig.java  
\* /opt/cola/permits/1302535166\_1649337439.89/0/tomcat-jaspic-api-9-0-58-sources-jar/javax/security/auth/message/ServerAuth.java

## 1.630 jetty-client 9.4.39.v20210325

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-----  
Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

# 1.631 cglib 2.2

## 1.631.1 Available under license :

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```
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/AbstractTransformTask.java
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```
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\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/MethodFilter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/util/SorterTemplate.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/FieldVisitorTee.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/FixedValue.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerFactory.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanException.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastMember.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassReaderGenerator.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastConstructor.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/CodeGenerationException.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Predicate.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/TinyBitSet.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/util/ParallelSorterEmitter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Constants.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Customizer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/LazyLoader.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/NamingPolicy.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassNameReader.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Block.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/util/ParallelSorter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/util/StringSwitcher.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddPropertyTransformer.java  
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\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-

jar/net/sf/cglib/reflect/ConstructorDelegate.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/TransformingClassLoader.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Converter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBean.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/AnnotationVisitorTee.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinBeanEmitter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassesKey.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassEmitter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Dispatcher.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassVisitorTee.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Local.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandler.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/NoOp.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanGenerator.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Transformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/core/ProcessArrayCallback.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassGenerator.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/core/ObjectSwitchCallback.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/TransformingClassGenerator.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/core/ProcessSwitchCallback.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/ProxyRefDispatcher.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/GeneratorStrategy.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/impl/FieldProvider.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/ClassTransformerTee.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/ClassEmitterTransformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/impl/InterceptFieldCallback.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/transform/impl/UndeclaredThrowableTransformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-  
jar/net/sf/cglib/core/DefaultGeneratorStrategy.java





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- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastMethod.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/MethodDelegate.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanCopier.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodProxy.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/DebuggingClassWriter.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinEmitter.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanEmitter.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerChain.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassFilterTransformer.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/FixedValueGenerator.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/NoOpGenerator.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMapEmitter.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/TypeUtils.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/KeyFactory.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/VisibilityPredicate.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/DefaultNamingPolicy.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastClass.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastClassEmitter.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/CodeEmitter.java
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- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackFilter.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/EmitUtils.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/MulticastDelegate.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMap.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Proxy.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
- \* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/DispatcherGenerator.java

\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackGenerator.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractClassLoader.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Mixin.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/AbstractClassGenerator.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/MethodWrapper.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/LazyLoaderGenerator.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ReflectUtils.java  
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\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddInitTransformer.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackInfo.java  
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\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/RejectModifierPredicate.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InterfaceMaker.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackHelper.java  
\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassInfo.java  
No license file was found, but licenses were detected in source scan.

/\*\*

\* ASM: a very small and fast Java bytecode manipulation framework

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\*/

Found in path(s):

\* /opt/cola/permits/1000765526\_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/LocalVariablesSorter.java

## 1.632 mime4j 0.6

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# 1.634 libpcap 1.9.0

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- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Compressor.java
- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Keep.java
- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/BitInputStream.java
- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/MapKeep.java
- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/PostMortem.java
- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/TrieKeep.java
- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/JSONzip.java
- \* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Huff.java
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\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java  
\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java  
\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/JSONTokener.java  
\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/XML.java  
\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/CDL.java  
\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java  
\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/HTTPTokener.java

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\* /opt/cola/permits/1126439541\_1611634442.47/0/json-20131018-sources-jar/org/json/JSONStringer.java

## 1.636 php 5.4.4

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# charset=UTF-8

# vim600: encoding=UTF-8

"streamable kanji code filter and converter"

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1998/11/10 sgk implementation in C++

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# 1.637 tomcat-tribes 9.0.58

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## 1.639 apt-jelly-freemarker 2.15



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```

Found in path(s):

```
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLog.java
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## 1.644 jdom 1.1.3

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\$Id: SAXOutputter.java,v 1.40 2007/11/10 05:29:01 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/output/SAXOutputter.java  
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jar/org/jdom/adapters/JAXPDOMAdapter.java

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\$Id: OrFilter.java,v 1.5 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: JDOMException.java,v 1.26 2008/12/10 00:59:51 jhunter Exp \$

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\$Id: AbstractDOMAdapter.java,v 1.21 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Namespace.java,v 1.44 2008/12/17 23:22:48 jhunter Exp \$

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\$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp \$

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\$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/JDOMParseException.java

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\$Id: XSLTransformException.java,v 1.4 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/transform/XSLTransformException.java

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\$Id: ContentList.java,v 1.42 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/ContentList.java

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\$Id: Filter.java,v 1.10 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/filter/Filter.java

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\$Id: XercesDOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/XercesDOMAdapter.java

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\$Id: IllegalAddException.java,v 1.26 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/IllegalAddException.java  
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\$Id: CrimsonDOMAdapter.java,v 1.17 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/CrimsonDOMAdapter.java

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\$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/filter/NegateFilter.java  
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\$Id: XMLOutputter.java,v 1.117 2009/07/23 05:54:23 jhunter Exp \$

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\$Id: BuilderErrorHandler.java,v 1.13 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: ProcessingInstruction.java,v 1.47 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/ProcessingInstruction.java

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\$Id: JDOMSource.java,v 1.20 2007/11/10 05:29:02 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/transform/JDOMSource.java  
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\$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/JDOMFactory.java

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\$Id: JDOMLocator.java,v 1.4 2007/11/10 05:29:01 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/output/JDOMLocator.java  
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\$Id: DOMAdapter.java,v 1.22 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/DOMAdapter.java

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\$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/NamespaceKey.java

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\$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Element.java

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\$Id: Attribute.java,v 1.56 2007/11/10 05:28:58 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Attribute.java  
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\$Id: JAXPParserFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/JAXPParserFactory.java

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\$Id: Comment.java,v 1.33 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: AttributeList.java,v 1.24 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JaxenXPath.java,v 1.20 2007/11/10 05:29:02 jhunter Exp \$

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\$Id: IllegalDataException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: DescendantIterator.java,v 1.6 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: CDATA.java,v 1.32 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/CDATA.java

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\$Id: IllegalTargetException.java,v 1.15 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/IllegalTargetException.java

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\$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/transform/JDOMResult.java  
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\$Id: UncheckedJDOMFactory.java,v 1.4 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/UncheckedJDOMFactory.java

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\$Id: Content.java,v 1.6 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: SAXBuilder.java,v 1.93 2009/07/23 06:26:26 jhunter Exp \$

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\$Id: AbstractFilter.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: EntityRef.java,v 1.22 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: XML4JDOMAdapter.java,v 1.18 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: IllegalNameException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp \$

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\*/

Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/IllegalNameException.java

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/\*--

\$Id: NamespaceStack.java,v 1.14 2007/11/10 05:29:01 jhunter Exp \$

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\*/

Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/output/NamespaceStack.java

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\$Id: DataConversionException.java,v 1.14 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/DataConversionException.java

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\$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/FilterIterator.java

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\$Id: Format.java,v 1.14 2009/07/23 05:54:23 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/output/Format.java  
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\$Id: Document.java,v 1.85 2007/11/10 05:28:58 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Document.java

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\$Id: Text.java,v 1.25 2007/11/10 05:28:59 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Text.java

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\$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp \$

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\* /opt/cola/permits/1135863741\_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/filter/ContentFilter.java

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\$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: XPath.java,v 1.17 2007/11/10 05:29:02 jhunter Exp \$

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\$Id: DOMBuilder.java,v 1.60 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: ElementFilter.java,v 1.20 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: AndFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: OracleV2DOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp \$

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## 1.645 quartz 2.3.2

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jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamJDom.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamXom.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamKXml2.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamWoodstox.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamXpp3.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamDom4J.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamBEAStax.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamSjsexp.java
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* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/Product.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
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jar/com/thoughtworks/xstream/tools/benchmark/targets/ListTarget.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/targets/Person.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamBinary.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
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* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/Target.java
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jar/com/thoughtworks/xstream/tools/benchmark/targets/UserDefinedClassTarget.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/targets/JTreeTarget.java
* /opt/ws_local/PERMITS_SQL/1046040773_1589807369.4/0/xstream-benchmark-1-4-12-sources-
jar/com/thoughtworks/xstream/tools/benchmark/products/XStreamCompact.java
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\* /opt/ws\_local/PERMITS\_SQL/1046040773\_1589807369.4/0/xstream-benchmark-1-4-12-sources-jar/com/thoughtworks/xstream/tools/benchmark/model/OneBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1046040773\_1589807369.4/0/xstream-benchmark-1-4-12-sources-jar/com/thoughtworks/xstream/tools/benchmark/model/FiveBean.java  
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- \* org.eclipse.jetty.orbit:javax.security.auth.message

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- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.657 jersey-container-servlet-core 2.28

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## 1.661 javax-websocket-client-impl

### 9.4.28.v20200408

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----  
Oracle

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\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

-----  
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN

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\* java.sun.security.ssl

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.662 websocket-common 9.4.28.v20200408

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## 1.663 asm 2.2.0

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- \* /opt/cola/permits/1000738091\_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/LinkedTreeMap.java
  - \* /opt/cola/permits/1000738091\_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/LinkedHashMap.java
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Found in path(s):

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  - \* /opt/cola/permits/1000738091\_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/JsonAdapter.java
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\* /opt/cola/permits/1000738091\_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonParser.java

\* /opt/cola/permits/1000738091\_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/FieldAttributes.java

\* /opt/cola/permits/1000738091\_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/LongSerializationPolicy.java

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\* /opt/cola/permits/1000738091\_1646171488.9/0/gson-2-8-5-sources-

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```
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-  
jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java  
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-  
jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java  
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-  
jar/com/google/gson/internal/JavaVersion.java  
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-  
jar/com/google/gson/internal/reflect/ReflectionAccessor.java  
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-  
jar/com/google/gson/internal/PreJava9DateFormatProvider.java
```

## 1.672 jetty 6.1.26

## 1.673 xsom 2.3.2

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# 1.680 hk2-api 2.6.1

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## 1.684 guava 27.1-jre

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

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/\*\*

\* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}

\* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

\* version.

\*

\* @throws UnsupportedOperationException always

\* @deprecated <b>Pass a key of type {@code Comparable} to use {@link

\* `ImmutableSortedMap#of(Comparable, Object)`.</b>

\*/

Found in path(s):

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/FutureCallback.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/net/MediaType.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingExecutorService.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Ticker.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/BoundType.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TreeRangeSet.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractStreamingHasher.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/Murmur3\_128HashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/CacheLoader.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Uninterruptibles.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractCompositeHashFunction.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/PrimitiveSink.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/RemovalListener.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/UnsignedLong.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EmptyContiguousSet.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularContiguousSet.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/AbstractLoadingCache.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/Cache.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ExecutionError.java

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\* This following method is a modified version of one found in

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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\* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/MoreExecutors.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/ClassPath.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/LinearTransformation.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableRangeMap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/RateLimiter.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/ChecksumHashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/html/package-info.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/BaseEncoding.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/xml/package-info.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/CharSink.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/ByteSource.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/LongAddable.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ServiceManager.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Closer.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/LongAddable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/TypeToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/Invokable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/FilteredKeyMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/PairedStatsAccumulator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/ByteSink.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/Stats.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractByteHasher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/TypeCapture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/CharSource.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/SipHashFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/Element.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/LongAddables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/Parameter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/FileWriteMode.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-

jar/com/google/common/reflect/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/math/StatsAccumulator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/math/PairedStats.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/cache/LongAddables.java  
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jar/com/google/common/io/LineProcessor.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/html/HtmlEscapers.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/reflect/TypeResolver.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/MapMaker.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-

jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/xml/XmlEscapers.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/net/UrlEscapers.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/ByteArrayDataInput.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/Cut.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/UnsignedBytes.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Platform.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/ByteArrayDataOutput.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/SignedBytes.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/net/InternetDomainName.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/MapMakerInternalMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/Platform.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/DenseImmutableTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ForwardingFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-

jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/net/HostSpecifier.java  
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jar/com/google/common/cache/CacheBuilder.java  
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jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ComputationException.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/SingletonImmutableList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractIndexedListIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/RegularImmutableSortedSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableAsList.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/DiscreteDomain.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ComparisonChain.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ArrayTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSetMultimap.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/CommonMatcher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/JdkPattern.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/PatternCompiler.java

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*/
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* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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*/
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/SmallCharMatcher.java
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```
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jar/com/google/common/collect/CompactHashMap.java
```

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/TreeRangeMap.java
```

```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/FilteredMultimap.java
```

```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
```



jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-

jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/RangeMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/CompactLinkedHashSet.java  
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jar/com/google/common/collect/Serialization.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/Collections2.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableMapValues.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableMultiset.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Range.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SingletonImmutableBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/StandardTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Platform.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/PeekingIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Tables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/CollectPreconditions.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Traverser.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractBaseGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/BaseGraph.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ValueGraphBuilder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/NetworkBuilder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/DirectedNetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/NetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MultiEdgesConnecting.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/UndirectedNetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MutableValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/UndirectedGraphConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/CollectCollectors.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableNetwork.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MapIteratorCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Comparators.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/GraphConstants.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/GraphBuilder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableMutableNetwork.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractGraphBuilder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ImmutableValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/GraphConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ElementOrder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableMutableGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MapRetrievalCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/DirectedGraphConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/EndpointPair.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/MoreCollectors.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableMutableValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java  
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\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* `java.util.HashMap` class.  
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jar/com/google/common/collect/ImmutableSortedAsList.java

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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Graph.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ImmutableGraph.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MutableNetwork.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Graphs.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TopKSelector.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ImmutableNetwork.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Network.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/SuccessorsFunction.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/RecursiveDeleteOption.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/PredecessorsFunction.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MutableGraph.java

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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Longs.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/net/PercentEscaper.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-



jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/FileBackedOutputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/net/InetAddresses.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Joiner.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/Floats.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FluentIterable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/MultiReader.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/Bytes.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Stopwatch.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/AbstractCheckedFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/CheckedFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/Doubles.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/Shorts.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/Booleans.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/AtomicLongMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/GwtTransient.java

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/\*\*

\* Returns an array containing all of the elements in the specified collection. This method  
\* returns the elements in the order they are returned by the collection's iterator. The returned  
\* array is "safe" in that no references to it are maintained by the collection. The caller is  
\* thus free to modify the returned array.  
\*  
\* <p>This method assumes that the collection size doesn't change while the method is running.  
\*  
\* <p>TODO(kevinb): support concurrently modified collections?  
\*  
\* @param c the collection for which to return an array of elements

\*/

Found in path(s):

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ObjectArrays.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/MultimapBuilder.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/MoreFiles.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntry.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/package-info.java

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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in

\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Hashing.java

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```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ConsumingQueueIterator.java
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```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
```

jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/annotations/VisibleForTesting.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/reflect/TypeToken.java

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jar/com/google/common/reflect/Reflection.java

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jar/com/google/common/collect/MapDifference.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/LinkedHashMapMultimap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/Multimaps.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ArrayListMultimap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractSetMultimap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractListMultimap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/SingletonImmutableSet.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractIterator.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractMultiset.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/EnumHashBiMap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/HashMultiset.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractMapBasedMultiset.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractSortedSetMultimap.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TreeMultimap.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ReverseOrdering.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Sets.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ExplicitOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Multiset.java



\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingListIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingConcurrentMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Iterables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Interner.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Synchronized.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingCollection.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingSortedMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TreeMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingList.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ConcurrentHashMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ComparatorOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EnumBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/LinkedHashMultiset.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/ByteStreams.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/DirectExecutor.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LittleEndianDataOutputStream.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Functions.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Throwables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Resources.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EnumMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Predicates.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-

jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/package-  
info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/CountingInputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Preconditions.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Defaults.java

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* the License.
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

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```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/Partially.java
```

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```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java
```

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jar/com/google/common/eventbus/SubscriberRegistry.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/math/Quantiles.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/eventbus/Subscriber.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/MoreObjects.java

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jar/com/google/common/collect/JdkBackedImmutableMap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/BaseImmutableMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/IndexedImmutableSet.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedMultisets.java

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jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/Runnables.java  
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jar/com/google/common/annotations/package-info.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/annotations/Beta.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-



jar/com/google/common/base/Equivalence.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Strings.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/SortedLists.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/Monitor.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Ascii.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ContiguousSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/net/package-  
info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/Atomics.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java  
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jar/com/google/common/collect/ForwardingListMultimap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/MinMaxPriorityQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedMapDifference.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingImmutableCollection.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RowSortedTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractSequentialIterator.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/ImmutableLongArray.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractHashFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/ImmutableIntArray.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingLock.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/ImmutableDoubleArray.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/Striped64.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AtomicDoubleArray.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/LongAdder.java  
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RangeSet.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedIterables.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedIterable.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingSortedMultiset.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/GeneralRange.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractRangeSet.java
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

# 1.685 tomcat-i18n-cs 9.0.58

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\* \$Id: matchResultExample.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: Perl5Matcher.java,v 1.27 2003/11/07 20:16:25 dfs Exp \$

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jar/org/apache/oro/text/regex/Perl5Matcher.java

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\* \$Id: GlobCompiler.java,v 1.8 2003/11/07 20:16:24 dfs Exp \$  
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\* \$Id: PatternCacheFIFO2.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: MatchActionProcessor.java,v 1.10 2003/11/07 20:16:24 dfs Exp \$  
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\* \$Id: PlusNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: PatternCacheRandom.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: AwkCompiler.java,v 1.10 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: printPasswd.java,v 1.8 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: oroToApache.java,v 1.7 2003/11/07 20:16:26 dfs Exp \$

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\* \$Id: Substitution.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$  
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\* \$Id: OpCode.java,v 1.11 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: StarNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: ParsedSubstitutionEntry.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: SyntaxTree.java,v 1.8 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: MatcherDemoApplet.java,v 1.5 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: Pattern.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: Perl5Substitution.java,v 1.13 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: GenericCache.java,v 1.8 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: Perl5Debug.java,v 1.11 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: DefaultMatchAction.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: GenericCacheEntry.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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  - \* /
  - /\*\*
    - \* Determines if the contents of a PatternMatcherInput, starting from the current offset of the input contains a pattern.
    - \* If a pattern match is found, a MatchResult instance representing the **first** such match is made accessible via { @link #getMatch()}. The current offset of the PatternMatcherInput is set to the offset corresponding to the end of the match, so that a subsequent call to this method will continue

\* searching where the last call left off. You should remember that the  
\* region between the begin and end offsets of the PatternMatcherInput are  
\* considered the input to be searched, and that the current offset  
\* of the PatternMatcherInput reflects where a search will start from.  
\* Matches extending beyond the end offset of the PatternMatcherInput  
\* will not be matched. In other words, a match must occur entirely  
\* between the begin and end offsets of the input. See  
\* { @link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput }  
\* for more details.

\* <p>

\* As a side effect, if a match is found, the PatternMatcherInput match  
\* offset information is updated. See the PatternMatcherInput  
\* { @link org.apache.oro.text.regex.PatternMatcherInput#setMatchOffsets  
\* setMatchOffsets(int, int) } method for more details.

\* <p>

\* The pattern must be an AwkPattern instance, otherwise a  
\* ClassCastException will be thrown. You are not required to, and  
\* indeed should NOT try to (for performance reasons), catch a  
\* ClassCastException because it will never be thrown as long as you use  
\* an AwkPattern as the pattern parameter.

\* <p>

\* This method is usually used in a loop as follows:

\* <blockquote><pre>

\* PatternMatcher matcher;

\* PatternCompiler compiler;

\* Pattern pattern;

\* PatternMatcherInput input;

\* MatchResult result;

\*

\* compiler = new AwkCompiler();

\* matcher = new AwkMatcher();

\*

\* try {

\* pattern = compiler.compile(somePatternString);

\* } catch(MalformedPatternException e) {

\* System.err.println("Bad pattern.");

\* System.err.println(e.getMessage());

\* return;

\* }

\*

\* input = new PatternMatcherInput(someStringInput);

\*

\* while(matcher.contains(input, pattern)) {

\* result = matcher.getMatch();

\* // Perform whatever processing on the result you want.

\* }

\*

\* </pre></blockquote>



```
* <p>
* @param input The PatternMatcherInput to test for a match.
* @param pattern The Pattern to be matched.
* @return True if the input contains a pattern match, false otherwise.
* @exception ClassCastException If a Pattern instance other than an
*     AwkPattern is passed as the pattern parameter.
*/
```

Found in path(s):

```
*/opt/cola/permits/1000740375_1646171523.75/0/oro-2-0-8-sources-jar/org/apache/oro/text/awk/AwkMatcher.java
```

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```
/*
```

```
* $Id: addCommas.java,v 1.7 2003/11/07 20:16:23 dfs Exp $
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\* \$Id: Perl5MatchResult.java,v 1.8 2003/11/07 20:16:25 dfs Exp \$

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\* \$Id: NegativeCharacterClassNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: grep.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$



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\* \$Id: SyntaxNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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\* \$Id: substituteExample.java,v 1.9 2003/11/07 20:16:23 dfs Exp \$

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\* \$Id: CacheFIFO2.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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# 1.687 saaj-api 1.3

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\*/

```
group gUnitTestResult;
```

```
testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<
```

```
-----  
<title> with <num_of_test> tests  
-----
```

```
<num_of_failure> failures found:
```

```
<failure:{<it.header>
```

```
expected: <it.expectedResult>
```

```
actual: <it.actualResult>
```

```
>>
```

```
<if(has_invalid)>
```

```
<num_of_invalid> invalid inputs found:
```

```
<invalid:{<it.header>
```

```
invalid input: <it.actual>
```

```
>>
```

```
<endif>
```

```
Tests run: <num_of_test>, Failures: <num_of_failure>
```

```
>>
```

```
Found in path(s):
```

```
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-jar/org/antlr/gunit/gUnitTestResult.stg
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- \* /opt/cola/permits/1136959957\_1613980668.79/0/gunit-3-2-sources-1-jar/org/antlr/gunit/swingui/model/TestSuite.java
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- \* /opt/cola/permits/1136959957\_1613980668.79/0/gunit-3-2-sources-1-jar/org/antlr/gunit/swingui/model/Rule.java
- \* /opt/cola/permits/1136959957\_1613980668.79/0/gunit-3-2-sources-1-

```
jar/org/antlr/gunit/swingui/model/TestSuiteFactory.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/WorkSpaceView.java
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* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/runner/NotifiedTestExecuter.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/model/TestCase.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/runner/gUnitAdapter.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/model/ITestCaseInput.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/WorkSpaceController.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/runner/TestSuiteAdapter.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/model/TestCaseInputFile.java
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\* /opt/cola/permits/1136959957\_1613980668.79/0/gunit-3-2-sources-1-jar/org/antlr/gunit/ReturnTest.java

\* /opt/cola/permits/1136959957\_1613980668.79/0/gunit-3-2-sources-1-jar/org/antlr/gunit/InvalidInputException.java

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Julian Seward, Cambridge, UK.

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/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo ([tsuneo@rr.iij4u.or.jp](mailto:tsuneo@rr.iij4u.or.jp))

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

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* /opt/cola/permits/1144733840_1616570385.49/0/pfl-basic-4-0-1-sources-1-  
jar/org/glassfish/pfl/basic/algorithm/AnnotationAnalyzer.java
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jar/org/glassfish/pfl/basic/func/NullaryVoidFunction.java  
* /opt/cola/permits/1144733840_1616570385.49/0/pfl-basic-4-0-1-sources-1-  
jar/org/glassfish/pfl/basic/func/NullaryFunction.java  
* /opt/cola/permits/1144733840_1616570385.49/0/pfl-basic-4-0-1-sources-1-  
jar/org/glassfish/pfl/basic/contain/Holder.java  
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\* /opt/cola/permits/1144733840\_1616570385.49/0/pfl-basic-4-0-1-sources-1-jar/org/glassfish/pfl/basic/func/FunctionBase.java  
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 */
```

Found in path(s):

```
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/impl/Log4jFactory.java
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/1136279767_1613727079.13/0/commons-logging-1-0-4-sources-2-
jar/org/apache/commons/logging/impl/Log4JLogger.java
```

\* /opt/cola/permits/1136279767\_1613727079.13/0/commons-logging-1-0-4-sources-2-jar/org/apache/commons/logging/impl/AvalonLogger.java  
\* /opt/cola/permits/1136279767\_1613727079.13/0/commons-logging-1-0-4-sources-2-jar/org/apache/commons/logging/impl/LogKitLogger.java  
\* /opt/cola/permits/1136279767\_1613727079.13/0/commons-logging-1-0-4-sources-2-jar/org/apache/commons/logging/Log.java  
\* /opt/cola/permits/1136279767\_1613727079.13/0/commons-logging-1-0-4-sources-2-jar/org/apache/commons/logging/impl/LogFactoryImpl.java  
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\* /opt/cola/permits/1136279767\_1613727079.13/0/commons-logging-1-0-4-sources-2-jar/org/apache/commons/logging/impl/Log4JCategoryLog.java

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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\*/

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## 1.708 hibernate-oscache 3.6.0.Final

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# 1.710 jetty-http 9.4.39.v20210325

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- \* org.eclipse.jetty.orbit:javafx.security.auth.message

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- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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- \* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.711 protobuf-java 3.5.1

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```
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/LongArrayList.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/AbstractParser.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/api.proto  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Internal.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Service.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Descriptors.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ServiceException.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/TextFormat.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Utf8.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ExtensionLite.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/type.proto  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
```

jar/com/google/protobuf/ProtobufArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ExtensionRegistryLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/SingleFieldBuilder.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/google/protobuf/source\_context.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/TextFormatEscaper.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/TextFormatParseLocation.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/google/protobuf/timestamp.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/LazyFieldLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/struct.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/CodedInputStream.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/FloatArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/MessageLiteToString.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/empty.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ExtensionRegistry.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/duration.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Parser.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/MapEntry.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/LazyField.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/LazyStringList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/UninitializedMessageException.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
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jar/com/google/protobuf/UnmodifiableLazyStringList.java  
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jar/com/google/protobuf/RpcController.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/InvalidProtocolBufferException.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/any.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Extension.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/NioByteString.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageOrBuilder.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/GeneratedMessageV3.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteBufferWriter.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteString.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractMessageLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/SmallSortedMap.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapField.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapEntryLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnsafeByteOperations.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractMessage.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteOutput.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionRegistryFactory.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnknownFieldSetLite.java  
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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/wrappers.proto  
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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExperimentalApi.java  
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jar/com/google/protobuf/TextFormatParseInfoTree.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/google/protobuf/compiler/plugin.proto  
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jar/com/google/protobuf/BooleanArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/CodedOutputStream.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/DiscardUnknownFieldsParser.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/RpcChannel.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/LazyStringArrayList.java  
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jar/com/google/protobuf/DoubleArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/RepeatedFieldBuilderV3.java  
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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
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jar/com/google/protobuf/MutabilityOracle.java  
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jar/com/google/protobuf/Message.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/descriptor.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/google/protobuf/field\_mask.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/UnsafeUtil.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/IterableByteBufferInputStream.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/UnknownFieldSet.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/IntArrayList.java



\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageReflection.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/GeneratedMessage.java

# 1.712 ganymed-ssh2 262

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# 1.713 sdo-eclipselink-plugin 2.3.2

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- \* <https://github.com/eclipse-ee4j/metro-ws-test-harness>
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- \* Project: <https://www.w3.org/Submission/ws-addressing/>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

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- \* License: Apache-2.0 AND SAX-PD AND W3C
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<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>
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- \* License: Oasis Style
- \* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

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- \* Project: <https://github.com/FasterXML/stax2-api>
- \* Source:  
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testng (6.14.2)

- \* License: Apache-2.0 AND MIT
- \* Project: <https://testng.org/doc/index.html>
- \* Source: <https://github.com/cbeust/testng>

woodstox-core-asl (4.4.1)

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woodstox-core-asl (5.1.0)

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ws-addr.wsd (1.0)

- \* License: W3C
- \* Project: <https://www.w3.org/2005/08/addressing/>
- \* Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

- \* License: Oasis Style
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- \* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

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- \* Source:  
<http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wsrn Version: 2005/02 (n/a)

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- \* Source:  
<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn-policy.xsd>

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* /opt/ws_local/PERMITS_SQL/1075472513_1596133759.77/0/reeasy-atom-provider-2-3-4-final-sources-2-
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* /opt/ws_local/PERMITS_SQL/1075472513_1596133759.77/0/reeasy-atom-provider-2-3-4-final-sources-2-
jar/org/jboss/reeasy/plugins/providers/atom/app/AppWorkspace.java
* /opt/ws_local/PERMITS_SQL/1075472513_1596133759.77/0/reeasy-atom-provider-2-3-4-final-sources-2-
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* /opt/cola/permits/1144733792_1616570389.66/0/pfl-asm-4-0-1-sources-3-
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jar/org/glassfish/pfl/objectweb/asm/optimizer/AnnotationConstantsCollector.java
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jar/com/sun/jna/platform/win32/VersionUtil.java
*/opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/Wininet.java
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/CallbackProxy.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComEventCallbackListener.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/DispatchVTable.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComThread.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IPersist.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComEventCallbackCookie.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComMethod.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/UnknownVTable.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/IUnknown.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComProperty.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IConnectionPoint.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/IConnectionPointContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IRunningObjectTable.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComEventCallbackCookie.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IConnectionPointContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/IRawDispatchHandle.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/AbstractComEventCallbackListener.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IStream.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/ConnectionPointContainer.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/DispatchListener.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/ProxyObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/Moniker.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/EnumMoniker.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/IConnectionPoint.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/EnumMoniker.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/IComEnum.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/RunningObjectTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IEnumMoniker.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IUnknownCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IUnknownListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/util/IRunningObjectTable.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/ShlObj.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/WinBase.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Netapi32.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/SspiUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Guid.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Win32Exception.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Winspool.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Crypt32.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/NtDllUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/WinspoolUtil.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Netapi32Util.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/LMJoin.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/WinCrypt.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/BaseTSD.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Secur32Util.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/NtDll.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Crypt32Util.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Ole32Util.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/WinUser.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/WinDef.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/ShellAPI.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Ole32.java

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jar/com/sun/jna/platform/EnumConverter.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/FlagEnum.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/HighLevelMonitorConfigurationAPI.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/EnumUtils.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/LowLevelMonitorConfigurationAPI.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/Dxva2.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
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jar/com/sun/jna/platform/win32/Winnetwk.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/Mpr.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/AccCtrl.java
* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/LMShare.java
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```
*/
```

```
// messageId: ERROR_DS_CONFIDENTIALITY_REQUIRED
```

```
// version.
```

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jar/com/sun/jna/platform/linux/XAttr.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-  
jar/com/sun/jna/platform/linux/XAttrUtil.java

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- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/W32Service.java
- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Winsvc.java

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- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/WbemcliUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Cfgmgr32.java
- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/IPHlpAPI.java
- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/PdhUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/Wbemcli.java
- \* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Cfgmgr32Util.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/mac/CoreFoundation.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/mac/IOReturnException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/mac/DiskArbitration.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/mac/IOKit.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/mac/IOKitUtil.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/RasterRangesUtils.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/mac/SystemB.java

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*/
/**
 * <code>
BOOL WINAPI CreateProcessWithLogonW(
    _In_     LPCWSTR lpUsername,
    _In_opt_ LPCWSTR lpDomain,
    _In_     LPCWSTR lpPassword,
    _In_     DWORD dwLogonFlags,
    _In_opt_ LPCWSTR lpApplicationName,
    _Inout_opt_ LPWSTR lpCommandLine,
    _In_     DWORD dwCreationFlags,
    _In_opt_ LPVOID lpEnvironment,
    _In_opt_ LPCWSTR lpCurrentDirectory,
    _In_     LPSTARTUPINFOW lpStartupInfo,
    _Out_    LPPROCESS_INFORMATION lpProcessInfo
);
 * </code>
 *
 * @param lpUsername
 *     [in]<br>
 *     The name of the user. This is the name of the user account to
 *     log on to. <br>
 *     If you use the UPN format, user@DNS_domain_name, the lpDomain
 *     parameter must be NULL.<br>
 *     The user account must have the Log On Locally permission on
 *     the local computer. <br>
 *     This permission is granted to all users on workstations and
 *     servers, but only to administrators on domain controllers.
 * @param lpDomain
 *     [in, optional]<br>
 *     The name of the domain or server whose account database
 *     contains the lpUsername account. <br>
 *     If this parameter is NULL, the user name must be specified in
 *     UPN format.
 * @param lpPassword
 *     [in]<br>
 *     The clear-text password for the lpUsername account.
 * @param dwLogonFlags
 *     [in]<br>
 *     The logon option. This parameter can be 0 (zero) or one of the

```

\* following values. <br>

\* LOGON\_WITH\_PROFILE: 0x00000001<br>

\* Log on, then load the user profile in the HKEY\_USERS registry  
\* key.<br>

\* The function returns after the profile is loaded. <br>

\* Loading the profile can be time-consuming, so it is best to  
\* use this value only if you must access the information in the  
\* HKEY\_CURRENT\_USER registry key.<br>

\* Windows Server 2003: The profile is unloaded after the new  
\* process is terminated, whether or not it has created child  
\* processes.<br>

\* Windows XP: The profile is unloaded after the new process and  
\* all child processes it has created are terminated.<br>

\* <br>

\* LOGON\_NETCREDENTIALS\_ONLY: 0x00000002<br>

\* Log on, but use the specified credentials on the network only.  
\* <br>

\* The new process uses the same token as the caller, but the  
\* system creates a new logon session within LSA, and the process  
\* uses the specified credentials as the default credentials.  
\* <br>

\* This value can be used to create a process that uses a  
\* different set of credentials locally than it does remotely.  
\* <br>

\* This is useful in inter-domain scenarios where there is no  
\* trust relationship.<br>

\* The system does not validate the specified credentials.<br>

\* Therefore, the process can start, but it may not have access  
\* to network resources.

\* @param lpApplicationName

\* [in, optional]<br>

\* The name of the module to be executed. This module can be a  
\* Windows-based application.<br>

\* It can be some other type of module (for example, MS-DOS or  
\* OS/2) if the appropriate subsystem is available on the local  
\* computer. The string can specify the full path and file name  
\* of the module to execute or it can specify a partial name.  
\* <br>

\* If it is a partial name, the function uses the current drive  
\* and current directory to complete the specification. <br>

\* The function does not use the search path. This parameter must  
\* include the file name extension; no default extension is  
\* assumed. The lpApplicationName parameter can be NULL, and the  
\* module name must be the first white space-delimited token in  
\* the lpCommandLine string.<br>

\* If you are using a long file name that contains a space, use  
\* quoted strings to indicate where the file name ends and the  
\* arguments begin; otherwise, the file name is ambiguous. For

\* example, the following string can be interpreted in different  
 \* ways:<br>  
 \* "c:\program files\sub dir\program name"<br>  
 \* The system tries to interpret the possibilities in the  
 \* following order:<br>  
 \* <br>  
 \* c:\program.exe files\sub dir\program name<br>  
 \* c:\program files\sub.exe dir\program name<br>  
 \* c:\program files\sub dir\program.exe name<br>  
 \* c:\program files\sub dir\program name.exe<br>  
 \* <br>  
 \* If the executable module is a 16-bit application,  
 \* lpApplicationName should be NULL, and the string pointed to by  
 \* lpCommandLine should specify the executable module and its  
 \* arguments.

\* @param lpCommandLine  
 \* [in, out, optional]<br>  
 \* The command line to be executed. The maximum length of this  
 \* string is 1024 characters. <br>  
 \* If lpApplicationName is NULL, the module name portion of  
 \* lpCommandLine is limited to MAX\_PATH characters.<br>  
 \* The function can modify the contents of this string. <br>  
 \* Therefore, this parameter cannot be a pointer to read-only  
 \* memory (such as a const variable or a literal string).<br>  
 \* If this parameter is a constant string, the function may cause  
 \* an access violation.<br>  
 \* The lpCommandLine parameter can be NULL, and the function uses  
 \* the string pointed to by lpApplicationName as the command line.  
 \* <br>  
 \* <br>  
 \* If both lpApplicationName and lpCommandLine are non-NULL,  
 \* \*lpApplicationName specifies the module to execute, and  
 \* \*lpCommandLine specifies the command line.<br>  
 \* The new process can use GetCommandLine to retrieve the entire  
 \* command line.<br>  
 \* Console processes written in C can use the argc and argv  
 \* arguments to parse the command line. <br>  
 \* Because argv[0] is the module name, C programmers typically  
 \* repeat the module name as the first token in the command line.  
 \* <br>  
 \* If lpApplicationName is NULL, the first white space-delimited  
 \* token of the command line specifies the module name.<br>  
 \* If you are using a long file name that contains a space, use  
 \* quoted strings to indicate where the file name ends and the  
 \* arguments begin (see the explanation for the lpApplicationName  
 \* parameter). If the file name does not contain an extension,  
 \* .exe is appended. Therefore, if the file name extension is  
 \* .com, this parameter must include the .com extension. If the

\* file name ends in a period with no extension, or if the file  
 \* name contains a path, .exe is not appended. If the file name  
 \* does not contain a directory path, the system searches for the  
 \* executable file in the following sequence:<br>

\* <br>

- \* 1. The directory from which the application loaded.<br>
- \* 2. The current directory for the parent process.<br>
- \* 3. The 32-bit Windows system directory. Use the  
 \* GetSystemDirectory function to get the path of this directory.  
 \* <br>
- \* 4. The 16-bit Windows system directory. There is no function  
 \* that obtains the path of this directory, but it is searched.  
 \* <br>
- \* 5. The Windows directory. Use the GetWindowsDirectory function  
 \* to get the path of this directory.<br>
- \* 6. The directories that are listed in the PATH environment  
 \* variable. Note that this function does not search the  
 \* per-application path specified by the App Paths registry key.  
 \* To include this per-application path in the search sequence,  
 \* use the ShellExecute function.<br>

\* <br>

\* The system adds a null character to the command line string to  
 \* separate the file name from the arguments. This divides the  
 \* original string into two strings for internal processing.<br>

\* @param dwCreationFlags

\* The flags that control how the process is created. <br>

\* The CREATE\_DEFAULT\_ERROR\_MODE, CREATE\_NEW\_CONSOLE, and  
 \* CREATE\_NEW\_PROCESS\_GROUP flags are enabled by default. <br>

\* Even if you do not set the flag, the system functions as if it  
 \* were set. You can specify additional flags as noted.<br>

\* <br>

\* CREATE\_DEFAULT\_ERROR\_MODE: 0x04000000<br>

\* The new process does not inherit the error mode of the calling  
 \* process. <br>

\* Instead, CreateProcessWithLogonW gives the new process the  
 \* current default error mode. <br>

\* An application sets the current default error mode by calling  
 \* SetErrorMode. This flag is enabled by default.<br>

\* <br>

\* CREATE\_NEW\_CONSOLE: 0x00000010<br>

\* The new process has a new console, instead of inheriting the  
 \* parent's console. This flag cannot be used with the  
 \* DETACHED\_PROCESS flag.<br>

\* This flag is enabled by default.<br>

\* <br>

\* CREATE\_NEW\_PROCESS\_GROUP: 0x00000200<br>

\* The new process is the root process of a new process group.  
 \* <br>

\* The process group includes all processes that are descendants  
 \* of this root process.<br>

\* The process identifier of the new process group is the same as  
 \* the process identifier, which is returned in the lpProcessInfo  
 \* parameter.<br>

\* Process groups are used by the GenerateConsoleCtrlEvent  
 \* function to enable sending a CTRL+C or CTRL+BREAK signal to a  
 \* group of console processes.<br>

\* This flag is enabled by default.<br>

\* <br>

\* CREATE\_SEPARATE\_WOW\_VDM: 0x00000800<br>

\* This flag is only valid starting a 16-bit Windows-based  
 \* application.<br>

\* If set, the new process runs in a private Virtual DOS Machine  
 \* (VDM).<br>

\* By default, all 16-bit Windows-based applications run in a  
 \* single, shared VDM.<br>

\* The advantage of running separately is that a crash only  
 \* terminates the single VDM; any other programs running in  
 \* distinct VDMs continue to function normally.<br>

\* Also, 16-bit Windows-based applications that run in separate  
 \* VDMs have separate input queues, which means that if one  
 \* application stops responding momentarily, applications in  
 \* separate VDMs continue to receive input. <br>

\* CREATE\_SUSPENDED: 0x00000004<br>

\* The primary thread of the new process is created in a  
 \* suspended state, and does not run until the ResumeThread  
 \* function is called.<br>

\* <br>

\* CREATE\_UNICODE\_ENVIRONMENT: 0x00000400<br>

\* Indicates the format of the lpEnvironment parameter.<br>

\* If this flag is set, the environment block pointed to by  
 \* lpEnvironment uses Unicode characters. <br>

\* Otherwise, the environment block uses ANSI characters. <br>

\* EXTENDED\_STARTUPINFO\_PRESENT: 0x00080000<br>

\* The process is created with extended startup information; the  
 \* lpStartupInfo parameter specifies a STARTUPINFOEX structure.  
 \* <br>

\* Windows Server 2003 and Windows XP: This value is not  
 \* supported.<br>

\* @param lpEnvironment  
 \* [in, optional]<br>

\* A pointer to an environment block for the new process.<br>

\* If this parameter is NULL, the new process uses an environment  
 \* created from the profile of the user specified by lpUsername.  
 \* An environment block consists of a null-terminated block of  
 \* null-terminated strings.<br>

\* Each string is in the following form:<br>

\* name=value<br>

\* Because the equal sign (=) is used as a separator, it must not  
 \* be used in the name of an environment variable.<br>

\* An environment block can contain Unicode or ANSI characters.  
 \* <br>

\* If the environment block pointed to by lpEnvironment contains  
 \* Unicode characters, ensure that dwCreationFlags includes  
 \* CREATE\_UNICODE\_ENVIRONMENT.<br>

\* If this parameter is NULL and the environment block of the  
 \* parent process contains Unicode characters, you must also  
 \* ensure that dwCreationFlags includes  
 \* CREATE\_UNICODE\_ENVIRONMENT.<br>

\* An ANSI environment block is terminated by two 0 (zero) bytes:  
 \* one for the last string and one more to terminate the block.  
 \* <br>

\* A Unicode environment block is terminated by four zero bytes:  
 \* two for the last string and two more to terminate the block.  
 \* <br>

\* To retrieve a copy of the environment block for a specific  
 \* user, use the CreateEnvironmentBlock function.<br>

\* @param lpCurrentDirectory  
 \* [in, optional]<br>

\* The full path to the current directory for the process.<br>

\* The string can also specify a UNC path.<br>

\* If this parameter is NULL, the new process has the same  
 \* current drive and directory as the calling process.<br>

\* This feature is provided primarily for shells that need to  
 \* start an application, and specify its initial drive and  
 \* working directory.<br>

\* @param lpStartupInfo  
 \* [in]<br>

\* A pointer to a STARTUPINFO or STARTUPINFOEX structure. <br>

\* The application must add permission for the specified user  
 \* account to the specified window station and desktop, even for  
 \* WinSta0\Default.<br>

\* If the lpDesktop member is NULL or an empty string, the new  
 \* process inherits the desktop and window station of its parent  
 \* process.<br>

\* The application must add permission for the specified user  
 \* account to the inherited window station and desktop.<br>

\* Windows XP: CreateProcessWithLogonW adds permission for the  
 \* specified user account to the inherited window station and  
 \* desktop.<br>

\* Handles in STARTUPINFO or STARTUPINFOEX must be closed with  
 \* CloseHandle when they are no longer needed.<br>

\* Important If the dwFlags member of the STARTUPINFO structure  
 \* specifies STARTF\_USESTDHANDLES, the standard handle fields are  
 \* copied unchanged to the child process without validation.<br>

```

* The caller is responsible for ensuring that these fields
* contain valid handle values. Incorrect values can cause the
* child process to misbehave or crash.<br>
* Use the Application Verifier runtime verification tool to
* detect invalid handles.
* @param lpProcessInfo
* [out]<br>
* A pointer to a PROCESS_INFORMATION structure that receives
* identification information for the new process, including a
* handle to the process.<br>
* Handles in PROCESS_INFORMATION must be closed with the
* CloseHandle function when they are not needed.<br>
* @return If the function succeeds, the return value is nonzero.<br>
* If the function fails, the return value is 0 (zero).<br>
* To get extended error information, call GetLastError.<br>
* Note that the function returns before the process has finished
* initialization.<br>
* If a required DLL cannot be located or fails to initialize, the
* process is terminated.<br>
* To get the termination status of a process, call
* GetExitCodeProcess.
* @see <a href="http://msdn.microsoft.com/en-
us/library/windows/desktop/ms682431%28v=vs.85%29.aspx">MSDN</a>
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073573502_1595391117.76/0/jna-platform-5-5-0-sources-
jar/com/sun/jna/platform/win32/Advapi32.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionStub.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbCoClass.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyGetStub.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/COMUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyPut.java



\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyGet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbAbstractMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionVTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/TlbImp.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbEnum.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionDispId.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/COMInvoker.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbInterface.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/TypeInfoUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbParameterNotFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/TypeLibUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbDispInterface.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyPutStub.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbCmdlineArgs.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Version.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/VerRsrc.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Tlhelp32.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IEnumIDList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/KnownFolders.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/OaIdl.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Ddeml.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/COM/IShellFolder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/SetupApi.java  
\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Shlwapi.java

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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/W32FileUtils.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/ShTypes.java

\* /opt/ws\_local/PERMITS\_SQL/1073573502\_1595391117.76/0/jna-platform-5-5-0-sources-jar/com/sun/jna/platform/win32/Winsock2.java

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN

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\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.722 shiro 1.2.4

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The implementation for org.apache.shiro.util.SoftHashMap is based

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compiler/cpp/src/generate/t\_java\_generator.cc  
compiler/cpp/src/generate/t\_ocaml\_generator.cc  
compiler/cpp/src/generate/t\_perl\_generator.cc  
compiler/cpp/src/generate/t\_php\_generator.cc  
compiler/cpp/src/generate/t\_py\_generator.cc  
compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h

compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
lib/csharp/src/Transport/TStreamTransport.cs  
lib/csharp/src/Transport/TTransport.cs  
lib/csharp/src/Transport/TTransportException.cs  
lib/csharp/src/Transport/TTransportFactory.cs  
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs  
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
lib/rb/lib/thrift.rb  
lib/st/README  
lib/st/thrift.st  
test/OptionalRequiredTest.cpp  
test/OptionalRequiredTest.thrift  
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jar/org/glassfish/gmbal/typelib/EvaluatedClassAnalyzer.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-  
jar/org/glassfish/gmbal/AMXMetadata.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-  
jar/org/glassfish/gmbal/ManagedObject.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-  
jar/org/glassfish/gmbal/ManagedAttribute.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-  
jar/org/glassfish/gmbal/impl/MBeanSkeleton.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-  
jar/org/glassfish/gmbal/typelib/ForceTypelibError.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-  
jar/org/glassfish/gmbal/impl/ManagedObjectManagerInternal.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-  
jar/org/glassfish/gmbal/impl/trace/TraceTypelibEval.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/trace/TraceRuntime.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/MBeanTree.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/InheritedAttribute.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/DescriptorIntrospector.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/NameValue.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/trace/TraceRegistration.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/AMXClient.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/AMXImpl.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/Visitor.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/AttributeDescriptor.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/ParameterNames.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/Description.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/TypeConverterImpl.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/ManagedData.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/trace/TraceRegistrationFine.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/AMXMBeanInterface.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/DescriptorFields.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/trace/TraceTypelib.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/ManagedObjectManager.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/DescriptorUtility.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/IncludeSubclass.java

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\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/util/GenericConstructor.java

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\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedFieldDeclaration.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedMethodDeclaration.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedArrayType.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedMethodDeclarationBase.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedClassDeclaration.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedClassDeclarationBase.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedDeclaration.java

\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedTypeBase.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedType.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/TypeEvaluator.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedAccessibleDeclaration.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/impl/ObjectRegistrationManagerImpl.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedArrayTypeBase.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedFieldDeclarationBase.java  
\* /opt/cola/permits/1144733364\_1616570364.27/0/gmbal-4-0-0-sources-1-jar/org/glassfish/gmbal/typelib/EvaluatedDeclarationBase.java

# 1.730 jetty-security 9.4.28.v20200408

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api



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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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org.ow2.asm:asm-commons

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

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plexus-utils (3.1.0)

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testng (6.14.2)

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## 1.736 hibernate 4.2.5.Final

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# 1.738 batik-css 1.11

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## 1.740 hibernate-envers 4.2.5.Final

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## 1.743 activation-api 1.2.1

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## 1.744 commons-io 2.5

### 1.744.1 Available under license :

```
<!DOCTYPE html>  
<html lang="en">  
<head>
```

```

<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

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</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">

```



```

<div class="container">
  <div class="navbar-header">
    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
      <span class="sr-only">Toggle navigation</span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
    </button>
    <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
  </div>
  <div class="collapse navbar-collapse" id="mainnav-collapse">
    <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a href="/licenses/">Licenses</a></div>
    <ul class="nav navbar-nav navbar-right">
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
          <li><a href="/foundation">Overview</a></li>
          <li><a href="/foundation/members.html">Members</a></li>
          <li><a href="/foundation/how-it-works.html">Process</a></li>
          <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
          <li><a href="/foundation/glossary.html">Glossary</a></li>
          <li><a href="/foundation/preFAQ.html">FAQ</a></li>
          <li><a href="/foundation/contact.html ">Contact</a></li>
        </ul>
      </li>
      <li><a href="/index.html#projects-list">Projects</a></li>
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
          <li><a href="http://people.apache.org/">Overview</a></li>
          <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
          <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
          <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
          <li><a href="http://planet.apache.org/">Planet Apache</a></li>
        </ul>
      </li>
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
          <li><a href="/foundation/getinvolved.html">Overview</a></li>
          <li><a href="http://community.apache.org/">Community Development</a></li>
          <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
          <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
        </ul>
      </li>
      <li><a href="/dyn/closer.cgi">Download</a></li>

```

```

    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
      </ul>
    </li>
  </ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-9 col-sm-8 col-xs-12">
      
      <a href="http://apache.org/foundation/contributing.html" title="Support Apache" style="margin-left: 150px;">
        
      </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-12">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
})();
</script>
      <gcse:searchbox-only></gcse:searchbox-only>
    </div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
  </div>
</div>
</div>
<div class="container"><style type="text/css">

```

```

/* The following code is added by mdx_elementid.py
   It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```

<div class="container">
  <div class="row">
    <br />
    <div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
    <li><a href="/memorials/">Memorials</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>

```

```
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright © 2017 The Apache Software Foundation, Licensed under the <a
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Foundation.</p>
</div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```



# 1.745 maven-model-builder 3.6.0

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## 1.750 sqlite-jdbc 3.27.2.1

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# 1.752 servlet-api 2.5

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Used in: user

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jar/javax/servlet/resources/j2ee\_web\_services\_client\_1\_1.xsd

\* /opt/cola/permits/1000764326\_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/j2ee\_1\_4.xsd

\* /opt/cola/permits/1000764326\_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/jsp\_2\_0.xsd

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\* /opt/cola/permits/1000764326\_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/javaee\_5.xsd

\* /opt/cola/permits/1000764326\_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/jsp\_2\_1.xsd

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## 1.753 swagger-core 1.5.9

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icon-general.png (originally preferences-desktop.png)  
icon-language.png (originally preferences-desktop-locale.png)  
icon-network.png (originally applications-internet.png)  
icon-security.png (originally dialog-warning.png)  
icon-stylesheet.png (originally applications-graphics.png)  
media-playback-pause.png  
media-playback-start.png  
process-stop.png  
redo.png (modified version of edit-redo.png)  
system-search.png  
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zoom-in.png viewmag+.png  
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## 1.756 spark-core 2.3

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```
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-  
jar/spark/resource/ExternalResource.java
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\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/TemplateViewRouteImpl.java  
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\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/resource/InputStreamResource.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/resource/Resource.java

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jar/spark/webserver/serialization/Serializer.java

\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-

jar/spark/webserver/serialization/DefaultSerializer.java

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jar/spark/webserver/websocket/WebSocketCreatorFactory.java

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jar/spark/resource/ExternalResourceHandler.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-
jar/spark/resource/ClassPathResourceHandler.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-
jar/spark/resource/AbstractResourceHandler.java
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\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/jetty/SocketConnectorFactory.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/Routable.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/staticfiles/StaticFiles.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/jetty/JettyServerFactory.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/globalstate/ServletFlag.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/utils/GzipUtils.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/websocket/WebSocketServletContextHandlerFactory.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/SparkInstance.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/serialization/InputStreamSerializer.java  
\* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/staticfiles/ServletStaticFiles.java  
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/utills/ObjectUtils.java
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 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/Spark.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/RequestWrapper.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/utils/SparkUtils.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/HaltException.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/Request.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/JettyHandler.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/RequestResponseFactory.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/ResponseWrapper.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/servlet/SparkFilter.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/servlet/SparkApplication.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/NotConsumedException.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/JettySparkServer.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/servlet/FilterTools.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/JettyLogger.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/RouteImpl.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/ModelAndView.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/route/HttpMethod.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/routematch/RouteMatch.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/route/RouteMatcherFactory.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/SparkServerFactory.java  
 \* /opt/cola/permits/1149087160\_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/Access.java  
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 */
```

Found in path(s):

```
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/TemplateViewRoute.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/ResponseTransformer.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-
jar/spark/ResponseTransformerRouteImpl.java
```

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## 1.759 hibernate-validator 4.1.0.Final

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: 1.6.0\_20 (Apple Inc.)

Built-By: hardy  
Build-Jdk: 1.6.0\_20  
Implementation-Title: hibernate-validator  
Implementation-URL: <http://validator.hibernate.org/hibernate-validator>  
Implementation-Vendor: org.hibernate  
Implementation-Vendor-Id: org.hibernate  
Implementation-Version: 4.1.0.Final  
Specification-Title: Bean Validation  
Export-Package: org.hibernate.validator;uses:="javax.validation,javax.validation.spi,org.hibernate.validator.resourceloading";version="4.1.0.Final",org.hibernate.validator.constraints;uses:="javax.validation,javax.validation.constraints";version="4.1.0.Final",org.hibernate.validator.messageinterpolation;uses:="javax.validation.metadata,javax.validation,org.hibernate.validator.resourceloading";version="4.1.0.Final",org.hibernate.validator.resourceloading;uses:="org.slf4j";version="4.1.0.Final"  
Tool: Bnd-0.0.357  
Bundle-Name: Hibernate Validator  
Bundle-Version: 4.1.0.Final  
Bnd-LastModified: 1277730439454  
Bundle-ManifestVersion: 2  
Bundle-Description: Hibernate's Bean Validation (JSR-303) reference implementation.  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Import-Package: javax.persistence;resolution:=optional;version="[2.0.0,3.0.0)",javax.validation;version="[1.0.0,2.0.0)",javax.validation.constraints;version="[1.0.0,2.0.0)",javax.validation.groups;version="[1.0.0,2.0.0)",javax.validation.metadata;version="[1.0.0,2.0.0)",javax.validation.spi;version="[1.0.0,2.0.0)",javax.xml.bind;version=0,javax.xml.bind.annotation;version=0,javax.xml.bind.annotation.adapters;version=0,javax.xml.namespace;version=0,javax.xml.transform;version=0,javax.xml.transform.stream;version=0,javax.xml.validation;version=0,org.slf4j;version="[1.5.6,2.0.0)",org.xml.sax;version=0  
Bundle-SymbolicName: org.hibernate.validator  
Originally-Created-By: Apache Maven

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jar/org/jline/builtins/telnet/TelnetIO.java

\* /opt/cola/permits/1260642975\_1643189505.05/0/jline-remote-telnet-3-12-1-sources-  
jar/org/jline/builtins/telnet/PortListener.java

\* /opt/cola/permits/1260642975\_1643189505.05/0/jline-remote-telnet-3-12-1-sources-  
jar/org/jline/builtins/telnet/ConnectionEvent.java

\* /opt/cola/permits/1260642975\_1643189505.05/0/jline-remote-telnet-3-12-1-sources-  
jar/org/jline/builtins/telnet/ConnectionManager.java

\* /opt/cola/permits/1260642975\_1643189505.05/0/jline-remote-telnet-3-12-1-sources-  
jar/org/jline/builtins/telnet/ConnectionData.java

\* /opt/cola/permits/1260642975\_1643189505.05/0/jline-remote-telnet-3-12-1-sources-  
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jar/org/jline/builtins/telnet/ConnectionFilter.java  
\* /opt/cola/permits/1260642975\_1643189505.05/0/jline-remote-telnet-3-12-1-sources-  
jar/org/jline/builtins/telnet/ConnectionListener.java

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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java

\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java

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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java

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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty\_epoll\_linuxsocket.c  
\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty\_epoll\_linuxsocket.h

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/Native.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/netty_epoll_native.c
```



# 1.764 argparse 0.7.0

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Found in path(s):

```
* /opt/cola/permits/1000038828_1646171452.21/0/argparse-0-7-0-zip/argparse-0.7.0/setup.py  
* /opt/cola/permits/1000038828_1646171452.21/0/argparse-0-7-0-zip/argparse-0.7.0/argparse.py  
* /opt/cola/permits/1000038828_1646171452.21/0/argparse-0-7-0-zip/argparse-0.7.0/test_argparse.py
```

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Metadata-Version: 1.0

Name: argparse

Version: 0.7.0

Summary: An optparse-inspired command-line parsing library

Home-page: <http://argparse.python-hosting.com/>

Author: Steven Bethard

Author-email: [steven.bethard@gmail.com](mailto:steven.bethard@gmail.com)

License: BSD

Description: Argparse takes the best of the optparse command-line parsing module and brings it new life. Argparse adds positional as well as optional arguments, the ability to create parsers for sub-commands, more informative help and usage messages, and much more. At the same time, it retains the ease and flexibility of use that made optparse so popular.

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Topic :: Software Development

Found in path(s):

```
* /opt/cola/permits/1000038828_1646171452.21/0/argparse-0-7-0-zip/argparse-0.7.0/PKG-INFO
```

# 1.765 activemq-spring 5.16.1

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ActiveMQ :: Spring

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## 1.767 hk2-utils 2.4.0

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- \* /opt/cola/permits/1302535142\_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-jar/javax/servlet/jsp/tagext/SimpleTag.java
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jar/javax/servlet/jsp/tagext/SimpleTagSupport.java  
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\* /opt/cola/permits/1302535142\_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-  
jar/javax/servlet/jsp/tagext/TagVariableInfo.java  
\* /opt/cola/permits/1302535142\_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-  
jar/javax/servlet/jsp/ErrorData.java  
\* /opt/cola/permits/1302535142\_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-  
jar/javax/servlet/jsp/JspApplicationContext.java  
\* /opt/cola/permits/1302535142\_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-  
jar/javax/servlet/jsp/tagext/TagLibraryInfo.java  
\* /opt/cola/permits/1302535142\_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-  
jar/javax/servlet/jsp/JspTagException.java  
\* /opt/cola/permits/1302535142\_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-

```
jar/javax/servlet/jsp/tagext/BodyContent.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/el/ELException.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/el/VariableResolver.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/SkipPageException.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/tagext/BodyTagSupport.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/tagext/BodyTag.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/tagext/TagAttributeInfo.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/el/ScopedAttributeELResolver.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/tagext/TagAdapter.java
* /opt/cola/permits/1302535142_1649337431.38/0/tomcat-jsp-api-9-0-58-sources-
jar/javax/servlet/jsp/tagext/VariableInfo.java
```

## 1.776 juli 6.0.20

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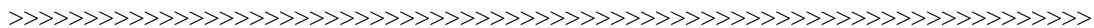
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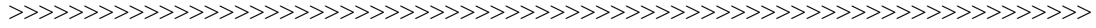
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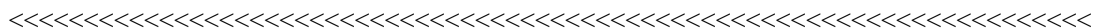




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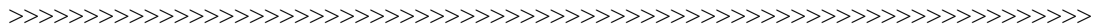


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Eclipse

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- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

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- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.779 jetty-jmx 9.4.28.v20200408

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api



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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.780 wagon-provider-api 3.2.0

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- \* <https://github.com/eclipse-ee4j/jaxb-dtd-parser>
- \* <https://github.com/eclipse-ee4j/jaxb-fi>
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The primary ANTLR guy:

Terence Parr  
parr@cs.usfca.edu  
parr@antlr.org

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* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/Errors.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/netty_unix_socket.h
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/Socket.java
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* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/netty_unix_socket.c
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* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/netty_unix_errors.h
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
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* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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\* /opt/cola/permits/1320330290\_1651524963.22/0/stateless4j-2-5-0-sources-7-  
jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java  
\* /opt/cola/permits/1320330290\_1651524963.22/0/stateless4j-2-5-0-sources-7-  
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\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/URLClassPath.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-  
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\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPath.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/HotSwapper.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Javac.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Opcode.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Executor.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/web/Webserver.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/LongVector.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/DeprecatedAttribute.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtClass.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Translator.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/NewArray.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassClassPath.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/MethodHandler.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformNew.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepository.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Cast.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java



\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/TokenId.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformWriteField.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewConstructor.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ConstPool.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java

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\*/

Found in path(s):

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

# 1.797 commons-io 1.4

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# 1.798 netty 3.10.6.Final

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- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingResultSet.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/KeyedCPDSConnectionFactory.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingStatement.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolingConnection.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DriverManagerConnectionFactory.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/UserPassKey.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingConnection.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PooledConnectionAndInfo.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/AbandonedObjectPool.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/InstanceKeyDataSource.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSourceFactory.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/DriverAdapterCPDS.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingCallableStatement.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/BasicDataSource.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolablePreparedStatement.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolingDataSource.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/SQLNestedException.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/InstanceKeyObjectFactory.java
- \* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/ConnectionFactory.java



\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/AbandonedConfig.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DbcException.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSource.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DataSourceConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/AbandonedTrace.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/ConnectionImpl.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/BasicDataSourceFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/jocl/ConstructorUtil.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/jocl/JOCLContentHandler.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PoolKey.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/CPDSConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DriverConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolingDriver.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolableConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/PoolableConnectionImpl.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolableConnection.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingPreparedStatement.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/PoolablePreparedStatementStub.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSourceFactory.java

## 1.800 paranamer 2.3

## 1.801 xstream-jmh 1.4.12

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\* /opt/ws\_local/PERMITS\_SQL/1046040744\_1589823309.99/0/xstream-jmh-1-4-12-sources-jar/com/thoughtworks/xstream/benchmark/jmh/Base64Benchmark.java

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* /opt/cola/permits/1257736466_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-
caa74c8/src/main/java/com/googlecode/jtype/Types.java
* /opt/cola/permits/1257736466_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-
```

caa74c8/src/main/java/com/googlecode/jtype/Generic.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/test/java/com/googlecode/jtype/DefaultWildcardTypeTest.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/main/java/com/googlecode/jtype/ClassUtils.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/main/java/com/googlecode/jtype/TypeUtils.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/test/java/com/googlecode/jtype/GenericsTest.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/main/java/com/googlecode/jtype/Generics.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/test/java/com/googlecode/jtype/ClassUtilsTest.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/main/java/com/googlecode/jtype/Utils.java  
\* /opt/cola/permits/1257736466\_1643003944.37/0/markhobson-jtype-0-1-1-0-gcaa74c8-tar-gz/markhobson-jtype-  
caa74c8/src/main/java/com/googlecode/jtype/ClassSerializers.java  
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caa74c8/pom.xml

# 1.812 shiro-guice 1.2.4

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# 1.813 tomcat-i18n-de 9.0.58

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## 1.814 async-http-client 1.9.40

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```
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jar/com/ning/http/util/HostnameChecker.java
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/grizzly/PayloadGenFactory.java  
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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/grizzly/events/GracefulCloseEvent.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/grizzly/GrizzlyResponseStatus.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/grizzly/SwitchingSSLFilter.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/grizzly/GrizzlyResponse.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/grizzly/events/ContinueEvent.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/grizzly/GrizzlyAsyncHttpProviderConfig.java  
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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/channel/CleanupChannelGroup.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-

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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/spnego/SpnegoTokenGenerator.java

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jar/com/ning/http/client/HttpResponseBodyPartsInputStream.java  
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jar/com/ning/http/client/providers/grizzly/AhcSSLConfigurator.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/grizzly/AhcHttpContext.java  
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jar/com/ning/http/client/spnego/SpnegoEngine.java

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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/handler/Protocol.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/channel/ChannelManager.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/util/HttpUtils.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/handler/HttpProtocol.java

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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/util/UTF8UriDecoder.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/multipart/PartBase.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/multipart/CounterPartVisitor.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/request/timeout/TimeoutTimerTask.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/ConnectionPoolPartitioning.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/request/timeout/RequestTimeoutTimerTask.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/util/StringCharSequence.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/providers/netty/future/StackTraceInspector.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/multipart/StringPart.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/cookie/RFC2616DateParser.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-

jar/com/ning/http/client/Param.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/multipart/PartVisitor.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/multipart/ByteArrayPart.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/util/StringUtils.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/cookie/CookieDecoder.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/request/timeout/ReadTimeoutTimerTask.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/multipart/FilePart.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/request/timeout/TimeoutsHolder.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/AsyncHttpClientConfigDefaults.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/multipart/AbstractFilePart.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/cookie/Cookie.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/cookie/CookieEncoder.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/util/UriEncoder.java

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jar/com/ning/http/client/providers/netty/chmv8/Striped64.java  
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/chmv8/ForkJoinPool.java  
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/chmv8/LongAdder.java  
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/chmv8/ConcurrentHashMapV8.java  
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/chmv8/ForkJoinTask.java  
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/chmv8/ForkJoinWorkerThread.java  
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-  
jar/com/ning/http/client/providers/netty/chmv8/CountedCompleter.java
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jar/com/ning/http/client/simple/HeaderMap.java
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\* {@link com.ning.http.client.AsyncHttpProvider} proprietary configurable properties. Note that properties are  
\* <strong>AsyncHttpProvider</strong> dependent, so make sure you consult the AsyncHttpProvider's  
documentation  
\* about what is supported and what's not.  
\*/

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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-  
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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/Body.java



\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/ResumableBodyConsumer.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/ThrowableHandler.java  
\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/multipart/FileUploadStalledException.java  
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\*/  
/\*\*  
\* Value class used for OAuth tokens (request secret, access secret);  
\* simple container with two parts, public id part ("key") and  
\* confidential ("secret") part.  
\*/

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\* /opt/cola/permits/1151111338\_1617788569.79/0/async-http-client-1-9-40-sources-2-jar/com/ning/http/client/listenable/ExecutionList.java  
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# 1.820 spring-web-mvc 5.3.18

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## 1.823 javax-websocket-server-impl

### 9.4.28.v20200408

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- \* org.eclipse.jetty.orbit:javax.security.auth.message

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- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.  
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# 1.824 servlet-api 4.0.0

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Found in path(s):

```
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/HttpServlet.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/AbstractHttpServlet.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/SimpleLruCache.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/ServletURIPool.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/TlsHelper.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/ServletURI.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/SslReverseProxyMode.java
* /opt/cola/permits/1320304756_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/org/xipki/http/servlet/package-info.java
```

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Found in path(s):

\* /opt/cola/permits/1320304756\_1651519748.12/0/servlet-api-4-0-0-sources-4-jar/META-  
INF/maven/org.xipki/servlet-api/pom.xml

# 1.825 flexnet-publisher 11.14.1.0

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# 1.826 jetty-webapp 9.4.28.v20200408

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.827 hibernate 3.6.0.Final

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## 1.831 jasper 4.0.2

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## 1.835 j2objc-annotations 1.1

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_snprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
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*
```

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\*/

```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
```

```
* Legacy security code; do not use.
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable {  
    public Permission(String name) { }
```

```
    public final String getName() { return null; }
```

```
    public void checkGuard(Object obj) throws SecurityException { }
```

```
    public PermissionCollection newPermissionCollection() {  
        return new AllPermissionCollection();  
    }
```

```
public abstract String getActions();

public abstract boolean implies(Permission permission);
}
```

```
=====
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\* file name: UBiDiProps.java

\* encoding: US-ASCII

\* tab size: 8 (not used)

\* indentation:4

\*

\* created on: 2005jan16

\* created by: Markus W. Scherer

\*

\* Low-level Unicode bidi/shaping properties access.

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`Replaceable` is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the `Replaceable` API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the **bold** font" has range (4, 8) replaced with "strong", then it becomes "the **strong** font".

`Replaceable` specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset `start..limit-1`. That is, the start offset is inclusive, and the limit offset is exclusive.

`Replaceable` also includes API to access characters in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`.

For a subclass to support metadata, typical behavior of `replace()` is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. `start == 0`), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@stable ICU 2.0

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`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

**Note:** This class does not support attributes and is not intended for general use. Most clients will need to implement `Replaceable` in their text representation class.

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@see Replaceable

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# 1.836 jackson-databind 2.12.4

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* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSON.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/AttributesMap.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSONObjectConvertor.java  
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* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/servlet/GzipFilter.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSONEnumConvertor.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/IntrospectionUtil.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/ContinuationSupport.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/Continuation.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/thread/Timeout.java  
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* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/thread/ThreadPool.java  
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* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/AjaxFilter.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/servlet/ConcatServlet.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSONPojoConvertor.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/Attributes.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/WaitingContinuation.java  
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/component/Container.java
```

```
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/RolloverFileOutputStream.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/component/AbstractLifeCycle.java
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```
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* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/ByteArrayOutputStream2.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/URIUtil.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/UrlEncoded.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/StringMap.java
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* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/LazyList.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/DateCache.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/MultiPartWriter.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/log/Log.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/IO.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/StringUtil.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/Loader.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/ByteArrayISO8859Writer.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/TypeUtil.java
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jar/org/mortbay/component/LifeCycle.java
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jar/org/mortbay/servlet/UserAgentFilter.java
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jar/org/mortbay/servlet/WelcomeFilter.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/thread/QueuedThreadPool.java
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jar/org/mortbay/thread/BoundedThreadPool.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
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jar/org/mortbay/util/MultiPartOutputStream.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
```

```
jar/org/mortbay/util/QuotedStringTokenizer.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/log/StdErrLog.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/servlet/ProxyServlet.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/MultiException.java
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```
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* -----
*/
```

Found in path(s):

```
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/servlet/ThrottlingFilter.java
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```

Found in path(s):

```
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/ajax/JSONPojoConvertorFactory.java
```

## 1.839 itext-pdf 2.1.7



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(1)

ExceptionConverter:

The original version of this class was published in an article by Heinz Kabutz.

Read [http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en\\_US](http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US)

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(2)

SimpleXMLParser:

The original version of this class was published in a JavaWorld article by Steven Brandt:

<http://www.javaworld.com/javaworld/javatips/jw-javatip128.html>

Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in

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(3)

The following files contain material that was copyrighted by SUN:

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com/lowagie/text/pdf/codec/PngImage.java (first appearance in iText: 2003-04-25)

com/lowagie/text/pdf/codec/TIFFDirectory.java (first appearance in iText: 2003-04-09)

com/lowagie/text/pdf/codec/TIFFFaxDecoder.java (first appearance in iText: 2003-04-09)

com/lowagie/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE

as well as some new things like JPEG2000."

(4) the file `com/lowagie/text/pdf/codec/TIFFConstants`  
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auto\_left\_margin, bw, bw

auto\_right\_margin, am, am

back\_color\_erase, bce, ut

can\_change, ccc, cc

ceol\_standout\_glitch, xhp, xs

col\_addr\_glitch, xhpa, YA

cpi\_changes\_res, cpix, YF

cr\_cancels\_micro\_mode, crxm, YB

dest\_tabs\_magic\_sms0, xt, xt

eat\_newline\_glitch, xenl, xn

erase\_overstrike, eo, eo

generic\_type, gn, gn

hard\_copy, hc, hc

hard\_cursor, chts, HC

has\_meta\_key, km, km

has\_print\_wheel, daisy, YC

has\_status\_line, hs, hs

hue\_lightness\_saturation, hls, hl

insert\_null\_glitch, in, in

lpi\_changes\_res, lpix, YG

memory\_above, da, da

memory\_below, db, db

move\_insert\_mode, mir, mi

move\_standout\_mode, msgr, ms

needs\_xon\_xoff, nxon, nx

no\_esc\_ctlc, xsb, xb

no\_pad\_char, npc, NP

non\_dest\_scroll\_region, ndscr, ND

non\_rev\_rmcup, nrrmc, NR

over\_strike, os, os

prtr\_silent, mc5i, 5i

row\_addr\_glitch, xvpa, YD

semi\_auto\_right\_margin, sam, YE

status\_line\_esc\_ok, eslok, es  
tilde\_glitch, hz, hz  
transparent\_underline, ul, ul  
xon\_xoff, xon, xo  
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maximum\_windows, wnum, MW  
no\_color\_video, ncv, NC  
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padding\_baud\_rate, pb, pb  
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width\_status\_line, wsl, ws  
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bit\_image\_type, bitype, Yp  
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change\_res\_horz, chr, ZC  
change\_res\_vert, cvr, ZD  
change\_scroll\_region, csr, cs  
char\_padding, rmp, rP  
clear\_all\_tabs, tbc, ct

clear\_margins, mgc, MC  
clear\_screen, clear, cl  
clr\_bol, e11, cb  
clr\_eol, el, ce  
clr\_eos, ed, cd  
column\_address, hpa, ch  
command\_character, cmdch, CC  
create\_window, cwin, CW  
cursor\_address, cup, cm  
cursor\_down, cud1, do  
cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
define\_char, defc, ZE  
delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam, SA  
enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti  
enter\_delete\_mode, smdc, dm  
enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
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enter\_normal\_quality, snrmq, ZL  
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enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN

enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
erase\_chars, ech, ec  
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exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
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flash\_hook, hook, fh  
flash\_screen, flash, vb  
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from\_status\_line, fsl, fs  
goto\_window, wingo, WG  
hangup, hup, HU  
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init\_2string, is2, is  
init\_3string, is3, i3  
init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
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insert\_line, il1, al  
insert\_padding, ip, ip  
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key\_beg, kbeg, @1  
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key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2



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key\_clear, kclr, kC  
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key\_command, kcmd, @4  
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key\_create, kcrt, @6  
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key\_dc, kdch1, kD  
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key\_down, kcud1, kd  
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key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos, ked, kS  
key\_exit, kext, @9  
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key\_f11, kf11, F1  
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key\_il, kill1, kA  
key\_left, kcub1, kl  
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key\_mark, kmrk, %2  
key\_message, kmsg, %3  
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key\_next, knxt, %5  
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key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
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key\_sright, kRIT, %i  
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key\_ssuspend, kSPD, !2  
key\_stab, khts, kT  
key\_sundo, kUND, !3  
key\_suspend, kspd, &7  
key\_undo, kund, &8  
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keypad\_local, rmkx, ke  
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lab\_f1, lf1, l1

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lab\_f2, lf2, l2  
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lab\_f4, lf4, l4  
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micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
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orig\_pair, op, op  
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parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO  
parm\_down\_micro, mcud, Zf  
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parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
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parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR  
parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mcuu, Zi  
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pkey\_local, pfloc, pl  
pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
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prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
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save\_cursor, sc, sc  
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set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
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set\_left\_margin\_parm, smglp, Zm  
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set\_right\_margin\_parm, smgrp, Zn  
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to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc  
up\_half\_line, hu, hu  
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user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
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set1\_des\_seq, s1ds, s1  
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set\_a\_foreground, setaf, AF  
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enter\_left\_hl\_mode, elhl, Xl  
enter\_low\_hl\_mode, elohl, Xo  
enter\_right\_hl\_mode, erhl, Xr  
enter\_top\_hl\_mode, ethl, Xt  
enter\_vertical\_hl\_mode, evhl, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

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\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/ExternalTerminal.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/NonBlockingReader.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/Colors.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/StyleResolver.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/Display.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/DumbTerminal.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/NonBlockingReaderImpl.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AttributedStyle.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/NonBlocking.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/Status.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/NonBlockingInputStream.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/Curses.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AbstractTerminal.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/Size.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AttributedStringBuilder.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/Utils/NonBlockingInputStreamImpl.java

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jar/org/jline/terminal/impl/NativeSignalHandler.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/Utils/InputStreamReader.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/Utils/AttributedString.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/WCWidth.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/DiffHelper.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/terminal/impl/AbstractPosixTerminal.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/Signals.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/package-

info.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/terminal/Attributes.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/Utils/ShutdownHooks.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/Utils/ClosedException.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/ExecHelper.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/OSUtils.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/spi/Pty.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/terminal/MouseEvent.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/terminal/impl/ExecPty.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/terminal/impl/package-info.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/Log.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/Levenshtein.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/terminal/impl/CursorSupport.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/Cursor.java

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-

jar/org/jline/terminal/impl/MouseSupport.java



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* https://opensource.org/licenses/BSD-3-Clause  
*/
```

Found in path(s):

```
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/terminal/impl/AbstractPty.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/terminal/TerminalBuilder.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/InfoCmp.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/terminal/spi/JnaSupport.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/terminal/spi/JansiSupport.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/terminal/impl/AbstractWindowsTerminal.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/Utils/AttributedCharSequence.java
```

No license file was found, but licenses were detected in source scan.

```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/Utils/PumpReader.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/Utils/NonBlockingPumpReader.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/Utils/NonBlockingPumpInputStream.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java  
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-  
jar/org/jline/Utils/WriterOutputStream.java
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/Utils/AnsiWriter.java
```

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#
```

```
black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua
white
grey0
```

navyblue  
darkblue  
blue3  
blue3a  
blue1  
darkgreen  
deepskyblue4  
deepskyblue4a  
deepskyblue4b  
dodgerblue3  
dodgerblue2  
green4  
springgreen4  
turquoise4  
deepskyblue3  
deepskyblue3a  
dodgerblue1  
green3  
springgreen3  
darkcyan  
lightseagreen  
deepskyblue2  
deepskyblue1  
green3a  
springgreen3a  
springgreen2  
cyan3  
darkturquoise  
turquoise2  
green1  
springgreen2a  
springgreen1  
mediumspringgreen  
cyan2  
cyan1  
darkred  
deppink4  
purple4  
purple4a  
purple3  
blueviolet  
orange4  
grey37  
mediumpurple4  
slateblue3  
slateblue3a  
royalblue1  
chartreuse4

darkseagreen4  
paleturquoise4  
steelblue  
steelblue3  
cornflowerblue  
chartreuse3  
darkseagreen4a  
cadetblue  
cadetbluea  
skyblue3  
steelblue1  
chartreuse3a  
palegreen3  
seagreen3  
aquamarine3  
mediumturquoise  
steelblue1a  
chartreuse2  
seagreen2  
seagreen1  
seagreen1a  
aquamarine1  
darkslategray2  
darkreda  
deeppink4a  
darkmagenta  
darkmagentaa  
darkviolet  
purplea  
orange4a  
lightpink4  
plum4  
mediumpurple3  
mediumpurple3a  
slateblue1  
yellow4  
wheat4  
grey53  
lightslategrey  
mediumpurple  
lightslateblue  
yellow4a  
darkolivegreen3  
darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a

darkolivegreen3a  
palegreen3a  
darkseagreen3  
darkslategray3  
skyblue 1  
chartreuse1  
lightgreen  
lightgreena  
palegreen1  
aquamarine1a  
darkslategray1  
red3  
deeppink4b  
mediumvioletred  
magenta3  
darkvioleta  
purpleb  
darkorange3  
indianred  
hotpink3  
mediumorchid3  
mediumorchid  
mediumpurple2  
darkgoldenrod  
lightsalmon3  
rosybrown  
grey63  
mediumpurple2a  
mediumpurple1  
gold3  
darkkhaki  
navajowhite3  
grey69  
lightsteelblue3  
lightsteelblue  
yellow3  
darkolivegreen3b  
darkseagreen3a  
darkseagreen2  
lightcyan3  
lightskyblue 1  
greenyellow  
darkolivegreen2  
palegreen1a  
darkseagreen2a  
darkseagreen1  
paleturquoise1  
red3a

deeppink3  
deeppink3a  
magenta3a  
magenta3b  
magenta2  
darkorange3a  
indianreda  
hotpink3a  
hotpink2  
orchid  
mediumorchid1  
orange3  
lightsalmon3a  
lightpink3  
pink3  
plum3  
violet  
gold3a  
lightgoldenrod3  
tan  
mistyrose3  
thistle3  
plum2  
yellow3a  
khaki3  
lightgoldenrod2  
lightyellow3  
grey84  
lightsteelblue1  
yellow2  
darkolivegreen1  
darkolivegreen1a  
darkseagreen1a  
honeydew2  
lightcyan1  
red1  
deeppink2  
deeppink1  
deeppink1a  
magenta2a  
magenta1  
orangered1  
indianred1  
indianred1a  
hotpink  
hotpinka  
mediumorchid1a  
darkorange

salmon1  
lightcoral  
palevioletred1  
orchid2  
orchid1  
orange1  
sandybrown  
lightsalmon1  
lightpink1  
pink1  
plum1  
gold1  
lightgoldenrod2a  
lightgoldenrod2b  
navajowhite1  
mistyrose1  
thistle1  
yellow1  
lightgoldenrod1  
khaki1  
wheat1  
cornsilk1  
grey100  
grey3  
grey7  
grey11  
grey15  
grey19  
grey23  
grey27  
grey30  
grey35  
grey39  
grey42  
grey46  
grey50  
grey54  
grey58  
grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found in path(s):

\* /opt/cola/permits/1260641921\_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utills/colors.txt

# 1.841 jetty-util 9.4.28.v20200408

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34 jsdever Exp \$

\* \$Revision: 291181 \$

\* \$Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) \$

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\*/

```
package org.apache.commons.httpclient;
```

```
import java.io.FilterInputStream;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

```
/**
```

```
 * Closes an underlying stream as soon as the end of the stream is reached, and
```

```
 * notifies a client when it has done so.
```

```
 *
```

```
 * @author Ortwin Glueck
```

```
 * @author Eric Johnson
```

```
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
```

```
 *
```

```
 * @since 2.0
```

```
*/
```

```
class AutoCloseInputStream extends FilterInputStream {
```

```
    /**
```

```
     * True if this stream is open. Assume that the underlying stream
```

```
     * is open until we get an EOF indication.
```

```
     */
```

```
    private boolean streamOpen = true;
```

```
    /** True if the stream closed itself. */
```

```
    private boolean selfClosed = false;
```

```
    /**
```

```
     * The watcher is notified when the contents of the stream have
```

```
     * been exhausted
```

```
     */
```

```
    private ResponseConsumedWatcher watcher = null;
```

```
    /**
```

```
     * Create a new auto closing stream for the provided connection
```

```
     *
```

```
     * @param in the input stream to read from
```

```
     * @param watcher To be notified when the contents of the stream have been
```

```
     * consumed.
```

```
     */
```

```
    public AutoCloseInputStream(
```

```
        final InputStream in, final ResponseConsumedWatcher watcher) {
```

```
        super(in);
```



```

    this.watcher = watcher;
}

/**
 * Reads the next byte of data from the input stream.
 *
 * @throws IOException when there is an error reading
 * @return the character read, or -1 for EOF
 */
public int read() throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }

    return l;
}

/**
 * Reads up to <code>len</code> bytes of data from the stream.
 *
 * @param b a <code>byte</code> array to read data into
 * @param off an offset within the array to store data
 * @param len the maximum number of bytes to read
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }

    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading

```

```

*/
public int read(byte[] b) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
}

/**
 * Close the stream, and also close the underlying stream if it is not
 * already closed.
 * @throws IOException If an IO problem occurs.
 */
public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}

/**
 * Close the underlying stream should the end of the stream arrive.
 *
 * @param readResult The result of the read operation to check.
 * @throws IOException If an IO problem occurs.
 */
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

/**
 * See whether a read of the underlying stream should be allowed, and if
 * not, check to see whether our stream has already been closed!
 *
 * @return <code>true</code> if it is still OK to read from the stream.
 * @throws IOException If an IO problem occurs.
 */
private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

```

```

/**
 * Notify the watcher that the contents have been consumed.
 * @throws IOException If an IO problem occurs.
 */
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;

        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}
}

```

## 1.845 zlib 1.2.3

### 1.845.1 Available under license :

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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# 1.846 sqlite-jdbc 3.7.2

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## 1.847 mchange-commons-java 0.2.15

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# 1.848 batik 1.11

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- \* /opt/cola/permits/1135953616\_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewWrappedMethod.java
- \* /opt/cola/permits/1135953616\_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Subroutine.java
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# 1.850 jetty-annotations 9.4.28.v20200408

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

# 1.851 jetty-rewrite 9.4.28.v20200408

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\* org.eclipse.jetty.orbit;org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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#### MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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#### Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.852 eclipse-persistence-moxy 2.7.4

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# 1.853 batik-test-svg 1.11

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.855 antlr 3.2

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# 1.857 xstream 1.4.12

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven Bundle Plugin

Built-By: joehni

Build-Jdk: 1.8.0\_222

Specification-Title: XStream Core

Specification-Vendor: XStream

Implementation-Title: XStream Core

Implementation-Version: 1.4.12

Implementation-Vendor-Id: com.thoughtworks.xstream

Implementation-Vendor: XStream

Bundle-License: BSD-3-Clause

Specification-Version: 1.4

X-Build-Os: Linux

X-Build-Time: 2020-04-12T17:17:04Z

X-Builder: Maven 3.6.2

X-Compile-Source: 1.4

X-Compile-Target: 1.4

Bnd-LastModified: 1586711859322

Bundle-Description: XStream is a serialization library from Java objects to XML and back.

Bundle-DocURL: <http://x-stream.github.io>

Bundle-ManifestVersion: 2

Bundle-Name: XStream Core

Bundle-SymbolicName: xstream

Bundle-Vendor: XStream

Bundle-Version: 1.4.12

Export-Package: com.thoughtworks.xstream;version="1.4.12",com.thoughtworks.xstream.annotations;version="1.4.12",com.thoughtworks.xstream.converters;version="1.4.12",com.thoughtworks.xstream.converters.basic;version="1.4.12",com.thoughtworks.xstream.converters.collections;version="1.4.12",com.thoughtworks.xstream.converters.enums;version="1.4.12",com.thoughtworks.xstream.converters.extended;version="1.4.12",com.thoughtworks.xstream.converters.javabean;version="1.4.12",com.thoughtworks.xstream.converters.reflection;version="1.4.12",com.thoughtworks.

xstream.converters.time;version="1.4.12",com.thoughtworks.xstream.core;version="1.4.12",com.thoughtworks.xstream.io;version="1.4.12",com.thoughtworks.xstream.io.binary;version="1.4.12",com.thoughtworks.xstream.io.copy;version="1.4.12",com.thoughtworks.xstream.io.json;version="1.4.12",com.thoughtworks.xstream.io.naming;version="1.4.12",com.thoughtworks.xstream.io.path;version="1.4.12",com.thoughtworks.xstream.io.xml;version="1.4.12",com.thoughtworks.xstream.io.xml.xppdom;version="1.4.12",com.thoughtworks.xstream.mapper;version="1.4.12",com.thoughtworks.xstream.persistence;version="1.4.12",com.thoughtworks.xstream.security;version="1.4.12"

Import-Package: org.xmlpull.mxp1;resolution:=optional,org.xmlpull.v1;resolution:=optional,com.ibm.xml.xpath.api.stax;resolution:=optional,com.sun.xml.internal.stream;resolution:=optional,javax.activation;resolution:=optional,javax.security.auth;resolution:=optional,javax.swing;resolution:=optional,javax.swing.plaf;resolution:=optional,javax.xml.bind;resolution:=optional;version="[2.3,3)",javax.xml.datatype;resolution:=optional,javax.xml.namespace;resolution:=optional,javax.xml.parsers;resolution:=optional,javax.xml.stream;resolution:=optional,javax.xml.transform;resolution:=optional,javax.xml.transform.sax;resolution:=optional,javax.xml.transform.stream;resolution:=optional,org.xml.sax;resolution:=optional,org.xml.sax.helpers;resolution:=optional,sun.misc;resolution:=optional,com.bea.xml.stream;resolution:=optional,com.ctc.wstx.stax;resolution:=optional,net.sf.cglib.proxy;resolution:=optional,nu.xom;resolution:=optional,org.codehaus.jettison;version="[1.2,2)",resolution:=optional,org.codehaus.jettison.mapped;version="[1.2,2)",resolution:=optional,org.dom4j;resolution:=optional,org.dom4j.io;resolution:=optional,org.dom4j.tree;resolution:=optional,org.jdom;resolution:=optional,org.jdom.input;resolution:=optional,org.jdom2;resolution:=optional,org.jdom2.input;resolution:=optional,org.joda.time;version="[1.6,2)",resolution:=optional,org.joda.time.format;version="[1.6,2)",resolution:=optional,org.kxml2.io;resolution:=optional,org.w3c.dom;resolution:=optional

JAVA\_1\_4\_HOME: /opt/blackdown-jdk-1.4.2.03

JAVA\_1\_5\_HOME: /opt/sun-jdk-1.5.0.22

JAVA\_1\_6\_HOME: /opt/sun-jdk-1.6.0.45

JAVA\_1\_7\_HOME: /opt/oracle-jdk-bin-1.7.0.80

JAVA\_1\_8\_HOME: /opt/oracle-jdk-bin-1.8.0.202

JAVA\_9\_HOME: /opt/oracle-jdk-bin-9.0.4

Tool: Bnd-2.4.1.201501161923

Found in path(s):

\* /opt/cola/permits/1111258596\_1606889656.07/0/xstream-1-4-12-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

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Created on 29. July 2006 by Mauro Talevi

Found in path(s):

\* /opt/cola/permits/1111258596\_1606889656.07/0/xstream-1-4-12-jar/META-INF/maven/com.thoughtworks.xstream/xstream/pom.xml

# 1.858 databinding 1.4.0.I20100601-0800

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